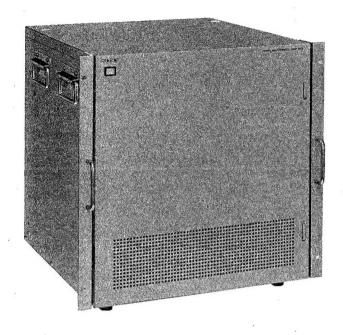
SONY

DIGITAL MULTI EFFECTS

DME-5000



OPERATION AND MAINTENANCE MANUAL 1st Edition Serial No. 10001 and Higher

For the customers in the U.S.A.

Warning

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a computing device pursuant to Subpart J of Part 15 of FCC Rules.

For the customers in Canada

This apparatus complies with the Class A limits for radio noise emissions set out in radio interference regulations.

Pour les utilisateurs au Canada

Cet appareil est conforme aux normes Class A, pour bruits radioelectriques. Tel que specifier dans le reglement sur le brouillage radioelectrique.

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Section 1. OPERATION

1-1. Overview

The DME-5000 digital multi effects produces high image quality effects by all-digital processing. It can be controlled from a BKDM-5070 control panel, or operated together with a DVS-8000/8000C digital video switcher system, and controlled from the same BKDS-8010 control panel as the switcher system.

1-1-1. Principal Features

Serial digital I/O

The unit uses serial digital I/O for all connections, each of which therefore requires only a single coaxial cable. Compared with conventional parallel interfaces, this feature reduces the effort required to set up connections, and the absence of skew timing errors increases reliability and allows longer-distance transmission.

Compatible with both composite and component formats

With four optional I/O boards (BKDM-5010/5011/5012/5013) available, the unit is compatible with all combinations of component and composite, digital and analog formats. When connecting the unit to an existing system, select the optional I/O board suitable for the switcher to be used.

Integrated operation with a DVS-8000 series switcher system

You can connect a DME-5000 unit to a DVS-8000/8000C switcher system, and control both units from a single control panel. This provides an integrated system, operating entirely in digital mode, and yielding perfect picture quality. The high-level DME LINK® function supports effects such as DME wipes, which combine video effects with the switcher wipe function.

Concurrent multichannel operation

You can connect two to four DME-5000 units together and use the same control panel to control up to four channels simultaneously or a selected channel only.

Image combination function

You can connect together two or more DME-5000 units fitted with the BKDM-5020/5021 digital combiner board and combine up to four channels in a single image. This combination function uses special signals containing depth information, which enables highly realistic effects, in which the images can be manipulated in 3-dimensional space.

Automatic switching between frame and field processing

The motion detector automatically switches the unit between frame mode for frame-by-frame image processing and field mode for field-by-field image processing according to the movement of the image. Each frame of image information processed in frame mode is equivalent to two fields of image information, so that the frame mode ensures no degradation of picture quality. To produce a new image using effects, frame mode will enable more precise processing than field mode. However, for processing to realize natural and smooth movement of an image, the field mode will be more suitable than the frame mode.

1-1-2. Important Notes

Handling circuit boards

It should not normally be necessary to remove or replace boards. For maintenance purposes, or when installing optional boards, observe the following precautions:

- Before inserting or removing a board, ensure that the power is switched off (see page 1-4(E)).
- Before turning the power on after inserting a new board, make sure that the number on the board matches that on the slot. See Section 3-4 "How to Install and Remove the Boards" for more details.

These precautions are important to avoid damage to the circuit boards.

Circuit breaker

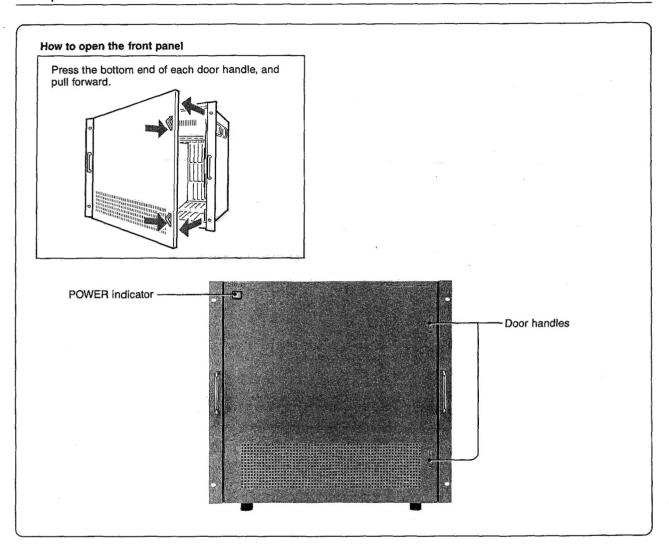
If a current surge occurs in the unit, the breaker will trip and cut off the power automatically (see page 1-4(E)).

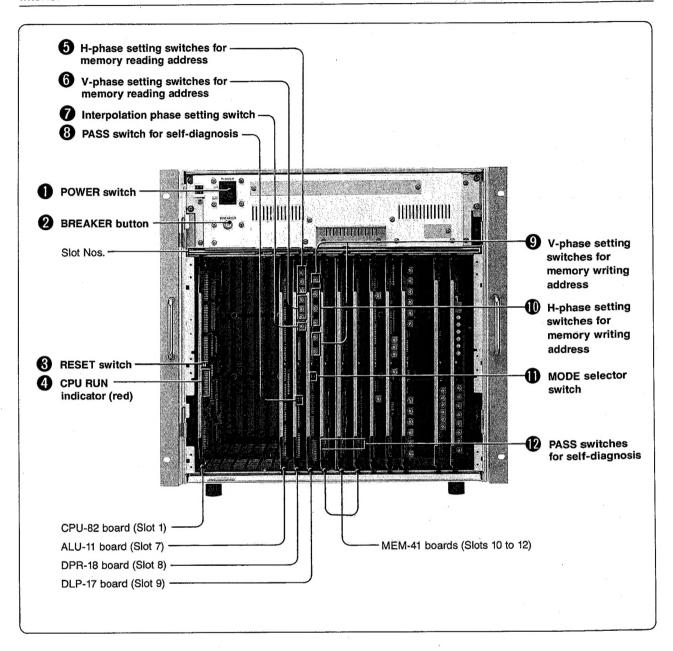
If the power does not come on when you switch on, the breaker may have tripped. Open the front panel and push the BREAKER button in.

1-2. Location and Function of Parts

1-2-1. Front Panel and Interior

Front panel





POWER switch

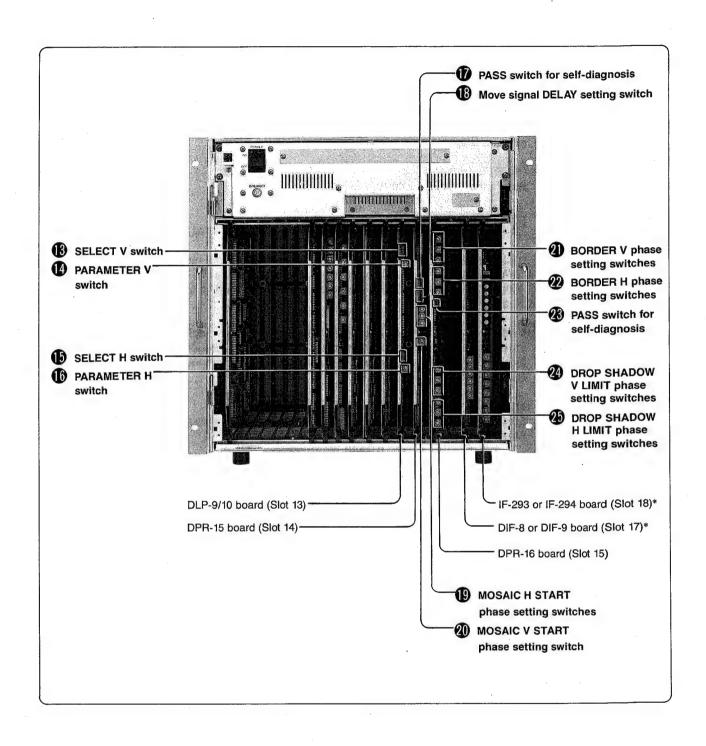
Powers the unit on and off.

- **BREAKER** button If an excess current flows in the unit, this button jumps out to cut off the power supply automatically.
- **RESET switch** Resets the CPU of the unit.
- **CPU RUN indicator (red)** Comprises LEDs which flash in sequence while the CPU is operating normally.
- H-phase (horizontal phase) setting switches for memory reading address Three dip switches used to set the horizontal phase of the image memory reading address for test purposes. The switches are arranged vertically, with the most significant bit at the top (2-4-4 bits).
- V-phase (vertical phase) setting switches for memory reading address Three dip switches used to set the vertical phase of the image memory reading address for test purposes. The switches are arranged vertically, with the most significant bit at the top (1-4-4 bits).
- 7 Interpolation phase setting switch Sets the phase of data to be used to interpolate the data read from the image memory. Keep this switch set at 3h.
- PASS switch for self-diagnosis Setting bit 1 of this switch to ON causes the internal operation of the DPR-18 and ALU-11/12/13 boards to be entirely skipped. Keep the bit 1 set to OFF except when carrying out self-diagnostic testing of the unit.
- V-phase (vertical phase) setting switches for memory writing address Three dip switches used to set the vertical phase of the image memory writing address for test purposes. The switches are arranged vertically, (sandwiched round the H-phase setting switches (1), with the most significant bit at the top (1-4-4 bits).
- H-phase (horizontal phase) setting switches for memory writing address Three dip switches used to set the horizontal phase of the image memory writing address for test purposes. The switches are arranged vertically, with the most significant
- bit at the top (2-4-4 bits).
- MODE selector switch Consists of two bits used to change the operation modes of the unit as follows:

Bit 1: ON = 525 mode, OFF = 625 mode Bit 2: ON = D1 mode, OFF = D2 mode

Ensure that the settings of these bits are consistent with the setting of the switch S3 on the CPU-82 board.

PASS switch for self-diagnosis Setting bit 1 of this switch to ON causes the internal operation of the MEM-41 board to be skipped. Keep bit 1 set to OFF except when carrying out self-diagnostic testing of the unit.



^{*} These are option boards, but since they are video I/O interfaces, this unit will not operate without them. For details, see "Optional boards" on page 1-9(E) and the operation and maintenance manuals for the respective boards.

B SELECT V (vertical filter parameter) switch

Four bits, 1 to 4 from the top down, used to set vertical filter parameters as follows:

Bit 1: Turns on/off the DEFOCUS circuit.

Bit 2: Switches the parameter setting mode between manual and automatic.

Bit 3: Selects the parameter setting range of 0-15 steps or 16-32 steps for manual setting mode.

Bit 4: Reserved for future use.

PARAMETER V (vertical filter constant) switch

Sets the vertical filter constant to be applied when the manual setting mode is selected with the SELECT V switch bit 2 ⁽³⁾. You can select one of the 16 settings 0-15 or 16-32 depending on the setting of the SELECT V switch bit 3 ⁽³⁾.

SELECT H (horizontal filter parameter) switch

Six bits, 1 to 6 from the top down, used to set horizontal filter parameters as follows:

Bit 1: Turns the Y-filter bypass on or off.

Bit 2: Turns the C-filter bypass on or off.

Bit 3: Turns the K-filter bypass on or off.

Bit 4: Switches the parameter setting mode between manual and automatic.

Bit 5: Selects the parameter setting range of 0-15 steps or 16-32 steps for manual setting mode.

Bit 6: Turns the DEFOCUS circuit on or off.

PARAMETER H (horizontal filter constant) switch

Sets the horizontal filter constant to be applied when the manual setting mode is selected with the SELECT H switch bit 4 (a). You can select one of the 16 settings 0-15 or 16-32 depending on the setting of the SELECT H switch bit 5 (b).

PASS switch for self-diagnosis

Setting bits 1 to 3 of this switch to ON causes the Y, C, and K video signal circuits to be skipped, respectively. Keep the three bits set to OFF except when carrying out self-diagnostic testing.

Move signal DELAY setting switch

Sets the move signal delay. This switch is for use by Sony service personnel only.

MOSAIC H (horizontal) START phase setting switches

Three dip switches used to set the phase of the horizontal start address for mosaic effect generation. The switches are arranged vertically, with the most significant bit at the top (2-4-4 bits). These switches are for use by Sony service personnel.

MOSAIC V (vertical) START phase setting switch

Sets the delay (0H to 15H) for the vertical start address for mosaic effect generation. This switch is for use by Sony service personnel.

BORDER V (vertical) phase setting switches

Three dip switches used to set the vertical phase of the added border. The switches are arranged vertically, with the most significant bit at the top (1-4-4 bits). Change the settings of these switches when changing the mode selection between 525 and 625 lines.

BORDER H (horizontal) phase setting switches

Three dip switches used to set the horizontal phase of the additional border. The switches are arranged vertically, with the most significant bit at the top (2-4-4 bits). Change the settings of these switches when changing between D1 and D2 modes.

- PASS switch for self-diagnosis

 Setting bits 1 to 3 of this switch to ON causes the K, C, and Y video signal circuits to be skipped, respectively. Keep the three bits set to OFF except when carrying out self-diagnostic testing.
- DROP SHADOW V (vertical) LIMIT phase setting switches

 Three switches used to set the vertical phase for the limiters to prevent overflows at the top and bottom ends of the drop shadow. Of these switches arranged vertically, the top one is for setting the highest-order bit of the phase data, the second one for setting the next four bits, and the bottom one for setting the low-order four bits. These switches are for use by Sony service personnel.
- DROP SHADOW H (horizontal) LIMIT phase setting switches

 Three dip switches used to set the horizontal phase for the limiters to prevent overflows at the top and bottom ends of the drop shadow. The switches are arranged vertically, with the most significant bit at the top (2-4-4 bits). These switches are for use by Sony service personnel.

Optional boards

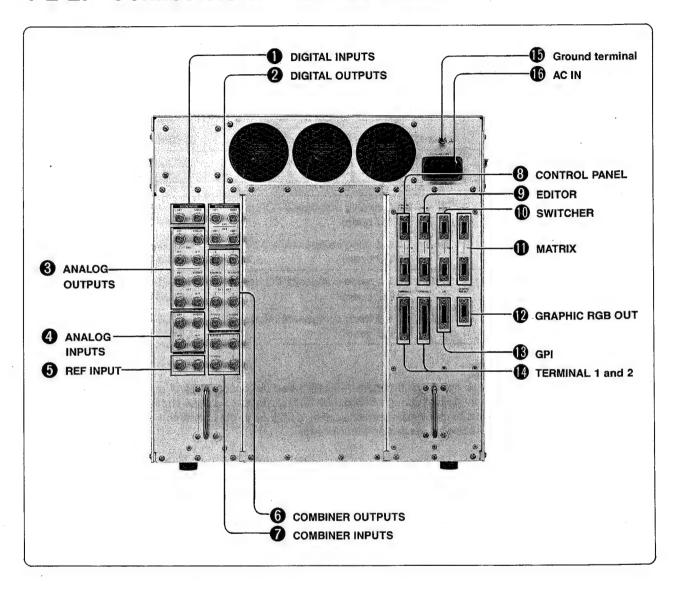
The following table gives the names and types of optional boards available, and the slot numbers of the circuit board slots reserved for them.

Slot No.	Board Name	Supplied as
2	DSC-58 graphic data display board	BKDM-5060
5	ALU-13 non-linear effects board	BKDM-5030
6	ALU-12 non-linear effects board	BKDM-5030
16	DLP-12 D2 digital combiner board	BKDM-5020
	DLP-11 D1 digital combiner board	BKDM-5021
17	DIF-8 D2 & analog composite I/O board D2 I/O board	BKDM-5010 BKDM-5012
. 4	DIF-9 D1 & analog component I/O board D1 I/O board	BKDM-5011 BKDM-5013
18	IF-293 D2 & analog composite I/O board D2 I/O board	BKDM-5010 BKDM-5012
	IF-294 D1 & analog component I/O board D1 I/O board	BKDM-5011 BKDM-5013

Note

For each of the slot numbers 16 to 18, select the optional board appropriate for the system. You can change between D1 and D2 modes by changing the optional boards installed in these slots. In some cases a change in the operation mode may require settings to be changed on other boards.

1-2-2. Connectors on the Rear Panel



DIGITAL INPUTS (BNC) Input the serial digital video and key signals. When the phase difference between the input signals and the reference signal input from the REF INPUT connectors ⑤ is in a range of −0.9H to +0.1H, the input signal phase is adjusted automatically. Using these connectors requires the BKDM-5010/5011/5012/5013 option board.

Output the serial digital video and key signals. The connectors for channels 1 and 2 (CH1 and CH2) output the same signals.

Using these connectors requires the BKDM-5010/5011/5012/5013 option board.

ANALOG OUTPUTS (BNC)
Output the analog video and key signals. The connectors for channels 1 and 2 (CH1 and CH2) output the same signals.
Using these connectors requires the BKDM-5010/5011 option board.

4 ANALOG INPUTS (BNC)
Input the serial digital video and key signals.
Using these connectors requires the BKDM-5010/5011 option board.

6 REF INPUT (reference video input) (BNC)
A pair of loop-through connectors used to input the analog reference video signal. The signal input to one of these connectors may be output from the other. When you use only one of them, be sure to terminate the other one with a 75-ohm terminator.

Output the serial digital signals to combine the image produced by the unit and those produced by other DME-5000 units. In D1 (component) format, VIDEO and KEYZ are used. In D2 (composite) format, Y, C, KEY, and Z are used. The connectors for channels 1 and 2 (CH1 and CH2) output the same signals.

Using these connectors requires the BKDM-5020/5021 option board.

Tombiner Inputs (BNC)
Input the serial digital signals to combine the image produced by the unit and those produced by other DME-5000 units. The combined image is output from the COMBINER OUTPUTS connector ■ In D1 (component) format, VIDEO and KEYZ are used. In D2 (composite) format, Y, C, KEY, and Z are used. The connectors for channels 1 and 2 (CH1 and CH2) output the same signals.

Using these connectors requires the BKDM-5020/5021 optional board.

8 CONTROL PANEL (D-SUB 9-pin)
A pair of loop-through connectors for connection to the BKDS-8010 or BKDM-5070 optional control panel. You may control up to four DME-5000 units using their loop-through CONTROL PANEL connectors from the same external control panel. These connectors comply with the RS422-A standard.

EDITOR (D-SUB 9-pin)
A pair of loop-through connectors for connection to external equipment such as the BVE-8000 editing control system, from which you can control the unit. You may daisy-chain two or more DME-5000 units using their loop-through EDITOR connectors to control them from the same external controller. These connectors comply with the RS422-A standard.

SWITCHER (D-SUB 9-pin)
If you connect either one of these loop-through connectors to the DVS-8000 digital video switcher, you can control one of the four internal auxiliary buses (AUX 1 to 4) of the switcher from the DVS-8000.

- MATRIX (D-SUB 9-pin)

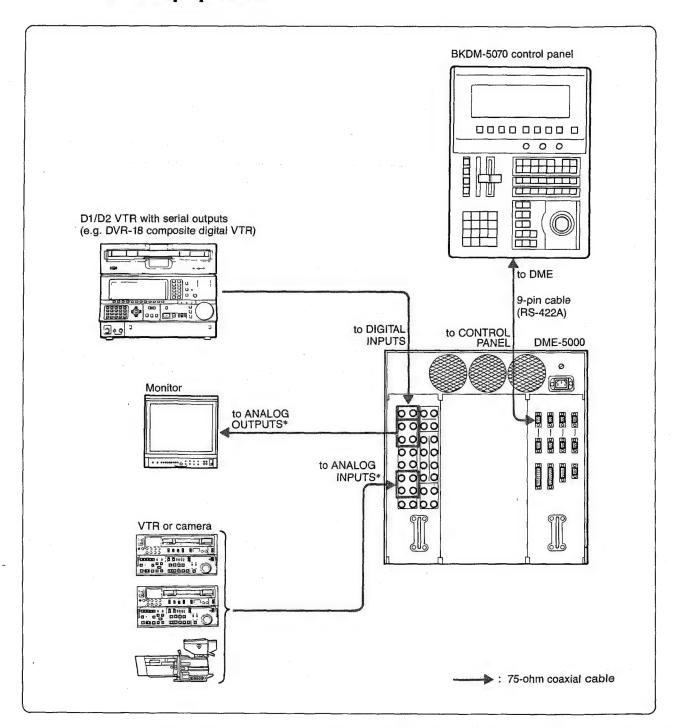
 If you connect either one of these loop-through connectors to an external matrix switcher, you can use the matrix switcher to switch the signal to be input to the unit.
- GRAPHIC RGB OUT (D-SUB 9-pin)
 Outputs the analog video signal (R, G, B, and SYNC) for input to a video monitor with R, G, and B input connectors.
 Using this connector requires the BKDM-5060 option board.
- **GPI** (general purpose I/O) (D-SUB 15-pin)
 Used to input or output trigger signals (up to four each for input and output) from or to external equipment. You may set the conditions for inputting or outputting each trigger signal.
- TERMINAL 1 and 2 (D-SUB 25-pin)

 Connect these connectors to appropriate control terminals when required to initialize or inspect the unit.
- Ground terminal
 Use this terminal to ground the system.
- **6** AC IN

 Connect this connector to an appropriate AC power supply using the power supply cord supplied.

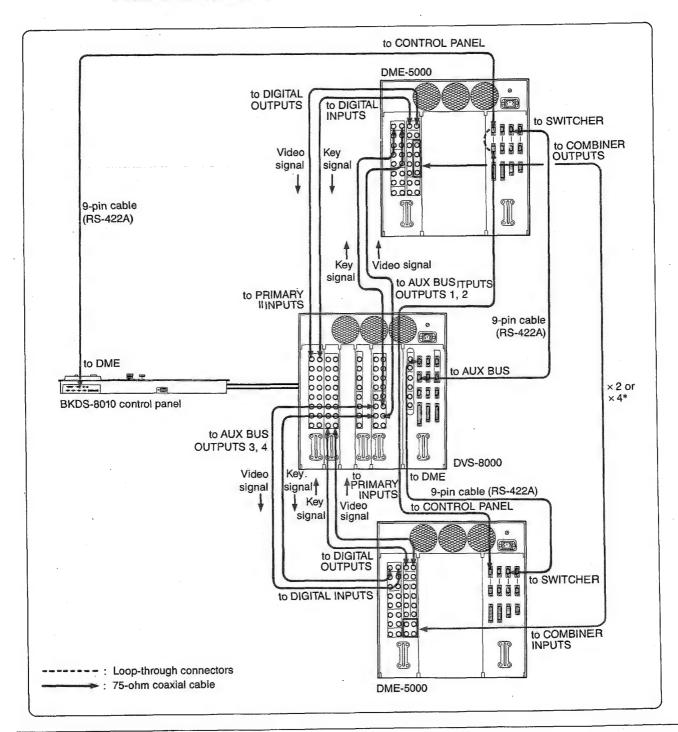
1-3. System Connections

1-3-1. Connection with Dedicated Control Panel and I/O Equipment



^{*} Use Y, R-Y, B-Y, and KEY to input/output component signals, or VIDEO and KEY to input/output composite signals.

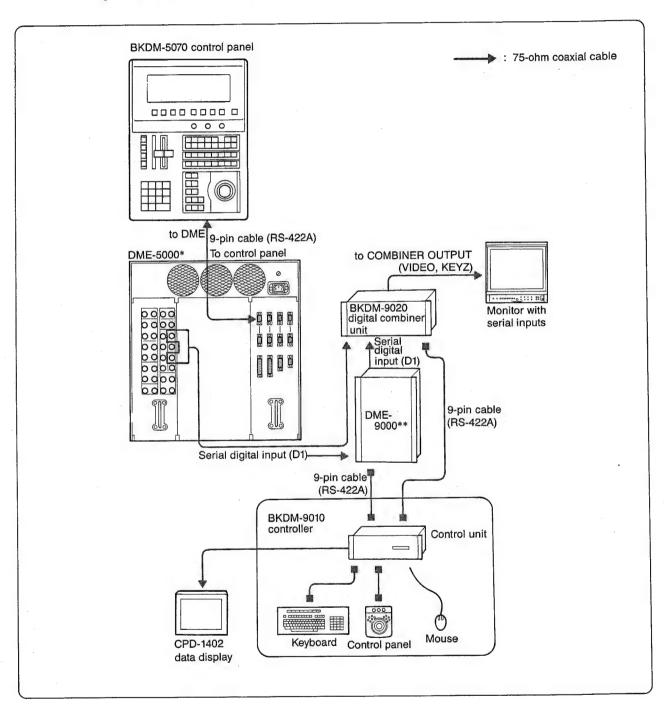
1-3-2. Connection with DVS-8000/8000C Digital **Video Switcher**



* For D1 mode: Connect COMBINER OUTPUTS (VIDEO and KEYZ) and COMBINER INPUTS (VIDEO and

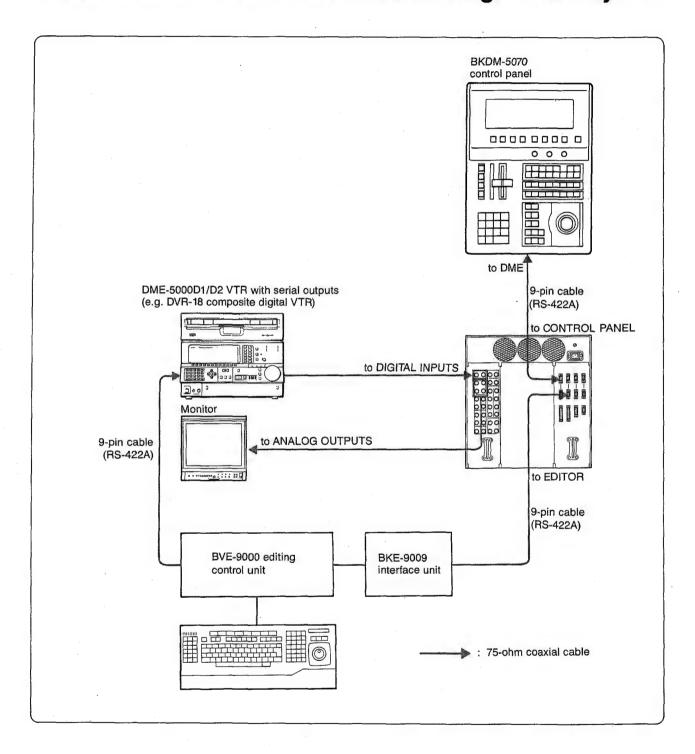
KEYZ) with 2 cables. For D2 mode: Connect COMBINER OUTPUTS (Y, C, KEY, and Z) and COMBINER INPUTS (Y, C, KEY, and Z) with 4 cables.

1-3-3. Connection with DME-9000 Digital Multi Effects (for D1 mode)

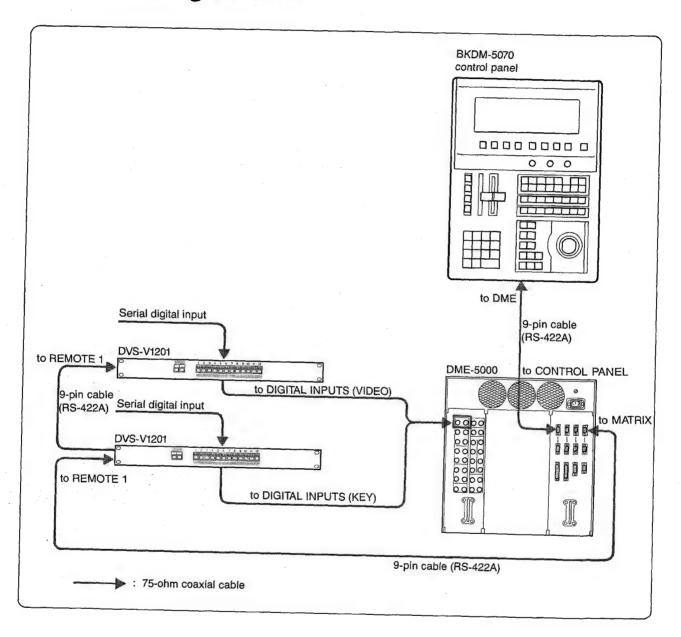


^{*} The DME-5000 requires the BKDM-5021 option board.
** The DME-9000 requires the BKDM-9023 option board.

1-3-4. Connection with BVE-9000 Editing Control System



1-3-5. Connection with DVS-V1201 Digital Video Routing Switcher



1-4. Specifications

General

Power requirements Power consumption Temperature Storage

Operating
Operating within specifications

Humidity Operating Operating within

specifications Dimensions (w/h/d)

.

Weight

85-132/170-265 V AC switched automatically

Approx. 500 W (with full options)

-20°C to +55°C (-4°F to +131°F)

5°C to 40°C (41°F to 104°F)

10°C to 35°C (50°F to 95°F)

80% RH or lower

70% RH or lower

424 × 443 × 450 mm, excluding projections

(163/4 × 171/2 × 173/4 inches)

50 kg (110 lb 4 oz)

I/O connectors

DIGITAL INPUTS

Component

VIDEO For serial digital input signal, BNC (\times 1), 75 ohms KEY For serial digital input signal, BNC (\times 1), 75 ohms

Composite

VIDEO For serial digital input signal, BNC (\times 1), 75 ohms KEY For serial digital input signal, BNC (\times 1), 75 ohms

DIGITAL OUTPUTS

Component
VIDEO For serial digital output signal, BNC (× 2), 75 ohms
KEY For serial digital output signal, BNC (× 2), 75 ohms

Composite

VIDEO For serial digital output signal, BNC (\times 2), 75 ohms KEY For serial digital output signal, BNC (\times 2), 75 ohms

ANALOG INPUTS

Component Y, R-Y, B-Y

For analog component input signal, BNC (×3)

Y: 1 Vp-p with SYNC R-Y, B-Y: 0.7 Vp-p VS: 1 Vp-p, BNC (×1)

KEY Composite

VIDEO For analog composite input signal, BNC (×1)

KEY VS: 1 Vp-p, BNC (\times 1)

ANALOG OUTPUTS

Component

Y, R-Y, B-Y

For analog component output signal, BNC (×6)

Y: 1 Vp-p with SYNC R-Y, B-Y: 0.7 Vp-p VS: 1 Vp-p, BNC (×2)

KEY Composite

VIDEO For analog composite output signal, BNC (×2)

KEY VS: 1 Vp-p, BNC (×2)

REF INPUT

Component

For analog reference input signal, BNC (×2)

B.B.: 0.3 Vp-p Hi-z loop-through

Composite

For analog reference video input signal

B.B.: 0.7 Vp-p

COMBINER INPUTS

Component

VIDEO, KEYZ

For serial digital input signal, BNC (x2)

Composite Y, C, KEY, Z

For serial digital input signal, BNC (×4)

COMBINER OUTPUTS

Component

VIDEO, KEYZ

For serial digital output signal, BNC (×4)

Composite

Y, C, KEY, Z

For serial digital output signal, BNC (×8)

GRAPHIC RGB OUT

For RGB and SYNC output signal, D-SUB 9-pin (×1)

Remote control signals

CONTROL PANEL

EDITOR SWITCHER

MATRIX TERMINAL 1 TERMINAL 2

GPI

Complying with RS-422A standard (D-SUB 9-pin)
Complying with RS-422A standard (D-SUB 9-pin)

Complying with RS-422A standard (D-SUB 9-pin) Complying with RS-422A standard (D-SUB 9-pin) Complying with RS-232C standard (D-SUB 25-pin)

Complying with RS-232C standard (D-SUB 25-pin) 4 inputs and 4 outputs, programmable (D-SUB 15-pin)

Performance

Linearity

DG: 2% max.

DP: 2° max.
(RAMP signal superimposed with 40-IRE subcarrier)

Frequency response

Pulse characteristic

±0.25 dB, 200 kHz to 4.2 MHz

K: 1% max., 2T pulse

Signal-to-noise ratio

Over 52 dB

Sampling

Clock

D2 composite: 14.3 MHz

D1 component: 13.5 MHz

Quantization

Analog: 9 bits

Digital I/O: 10 bits (8 bits in memory)

Input phase difference absorption

Input error range allowable: -56 µs to +6 µs per frame

Acessories supplied

Rack mounting angles (1 set; fitted to the cabinet)

EX-270 extension board (1)

AC power cord (1)

Plug adapter for AC power cord (1)

75-ohm terminator (1)

Operation and maintenance manual (1)

Recommended equipment

BKDM-5070 control panel for DME-5000 DVS-8000/8000C digital video switcher BKDS-8010 control panel for DVS-8000/8000C BVE-9000 editing control system

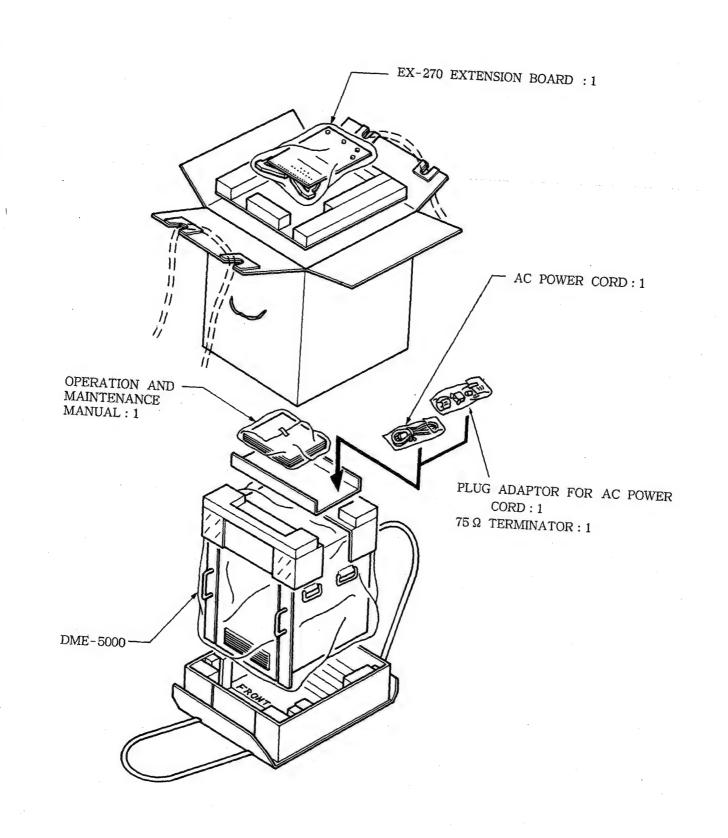
Optional circuit boards

BKDM-5060 graphic data display board BKDM-5021 D1 digital combiner board BKDM-5020 D2 digital combiner board BKDM-5013 D1 digital I/O board BKDM-5012 D2 digital I/O board BKDM-5011 D1 analog component I/O board BKDM-5010 D2 analog composite I/O board BKDM-5030 nonlinear effects board

Design and specifications are subject to change without notice.

SECTION 2 INSTALLATION

2-1. UNPACKING AND REPACKING



2-2. OPERATING ENVIRONMENT

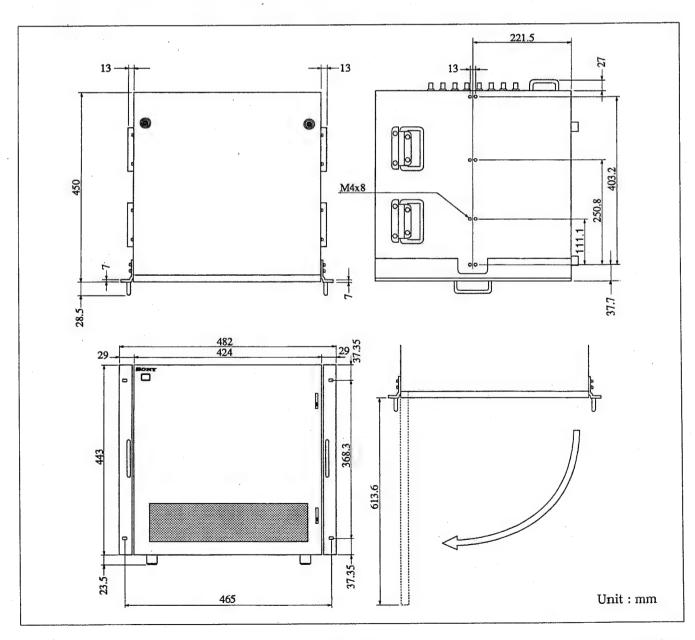
- Take special care regarding the air circulation of the installation site to prevent the inside temperature of the unit from rising. Make sure not to block the ventilation holes on the unit.
- The operating ambient temperature of the unit is 5°C to 40°C. Do not install the unit near a heat source.

2-4. POWER VOLTAGE

 The DME-5000 power uses a switching regulator and is designed for use with 100V to 115V.
 Therefore, you can use the unit in the 100V to 115V range without changing the power voltage.

2-3. EXTERNAL DIMENSIONS

•The external dimensions of the unit are given below.

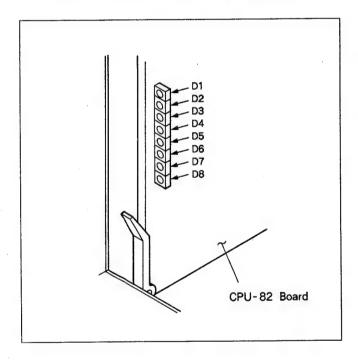


2-5. CONFIRMATION AND ADJUSTMENT AT INSTALLATION TIME

2-5-1. Setting the Power Voltage

After installing the unit, check the power voltage inside the unit.

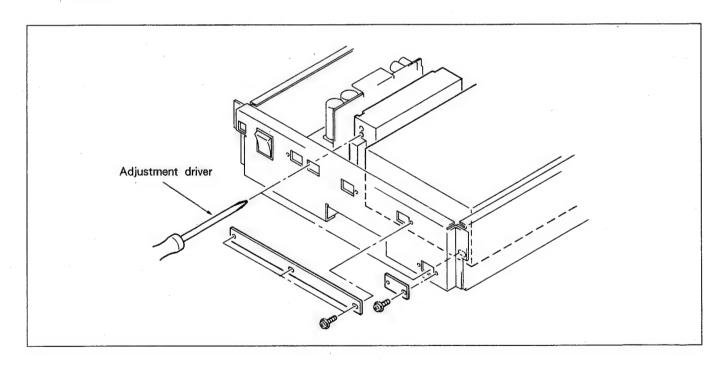
- (1) Open the front panel. Check whether the power unit is properly inserted and fixed with 4 screws shown the arrows of front side (+ PWH4x8).
- (2) Turn ON the power and see whether the operation indicator LEDs (D1 to D8) on the edge of the CPU-82 board flash sequentially.



- * If none of the lamps light, there is no power voltage (+5V) output. If none of the lamps light and the fan is rotating, the +5V supply is defective. If none of the lamps light and the fan does not rotate, the primary side of the power unit is defective. If the lamps light and the LEDs stop flashing, this could mean a CPU-82 board error or voltage error in the +5V and ±12V supplies. Check and adjust the voltage using the procedure given below.
- ① See Section "3-5. How to Use the Extension Board" to connect the IF-293 board (slot No. 18) and the extension board.
- ② Measure the +5V at TP-1 (GND) and TP-2 (+5V) on the extension board and make sure you get $+5V\pm0.05V$.
- 3 Measure TP-3 (+12V), TP-6 (GND), and TP-9 (-12V) on the extension board and make sure you get $+12V\pm0.1V$ and $-12V\pm0.1V$ respectively.
- 4 Measure the -5V at TP-1 (GND) and TP-12 (-5V) on the extension board and make sure you get $-5V \pm 0.05V$.

- ⑤ If the measured values differ from the specified values, adjust the voltage using the procedure given below. Adjust the digital voltmeter while connecting it to the TPs mentioned above.
 - 1. Remove the adjustment window cover of the power unit.
 - 2. Insert an adjustment driver through the adjustment window and turn the voltage adjustment volume of the corresponding switching regulator. Observing the digital voltmeter reading, adjust the voltage until you obtain the proper voltage.

Note: Set the power voltage with all the card boards inserted in their locations (excluding the option boards).



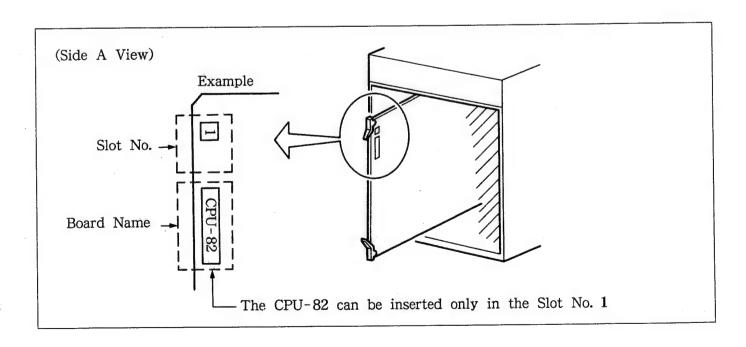
2-5-2. How to Install the Card Boards

Each printed circuit board must be installed in a designated slot of the DME-5000. Check whether each printed circuit board is installed in the proper slot as indicated in the table below.

			and the second s
Slot No.	Board Name	Slot Na	Board Name
1	CPU-82	14	DPR-15
2	DSC-58 (BKDM-5060)	15	DPR-16
3	Option Board		DLP-12 (BKDM-5020)
4	Option Board	16	*DLP-11 (BKDM-5021)
5	ALU-13 (BKDM-5030)		DIF-8
6	ALU-12 (BKDM-5030)	17	(BKDM-5010 or -5012)
7	ALU-11	11	* DIF-9 (BKDM-5011
8	DPR-18		or -5013)
9	DPR-17		IF-293 (BKDM-5010 or
10or12	MEM-41 (YorK)	18	-5012) % IF - 294
11	MEM-41(C)		(BKDM-5011 or -5013)
13	DLP-9, 10		

※: Used by D1 mode.

- The name of the printed circuit board and the slot number in which the board can be installed are indicated on both sides A and B of the upper portion of the board toward you.
- (See the illustration below.)
- The DME-5000 can accommodate various systems and expand its functions by installation of option boards. Install each option board in the designated range and sequence in accordance with the slot number indicated on the upper portion of the board toward you, in the same way as the main printed circuit boards.
- Note 1) Check whether the connectors of each printed circuit board are properly connected to the MB-305 board of the main body.
- Note 2) If the printed circuit boards are installed in a wrong sequence, system error will occur and the unit will not operate properly.
- Note 3) When you add an option board or when you adjust a printed circuit board, make sure to check the power voltage.



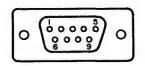
2-6. CONNECTORS

When you connect a cable to the connector on the rear panel during installation or maintenance service, use the hardware listed below or equivalent.

Panel Display	Connecting Connectors /Part No.
DIGITAL INPUTS	
DIGITAL OUTPUTS	
ANALOG INPUTS	
ANALOG OUTPUTS	BNC Connector 1-560-009-11
COMBINER INPUTS	
COMBINER OUTPUTS	·
REF INPUT	
TERMINAL 1	D-SUB 25P
TERMINAL 2	1-556-356-11
GPI	D-SUB 15P 1-566-355-11
CONSOLE	
EDITOR	
AUX1	D-SUB 9P 1-566-354-11
AUX2	,
GRAPHIC RGB OUT	

2-7. INPUT/OUTPUT SIGNALS OF CONNECTOR

- DIGITAL INPUTS BNC connector, 75 Ω terminal
- ANALOG INPUTS BNC connector, 75Ω terminal
- COMBINER INPUTS
 BNC connector
- REF INPUTS BNC connector, $75\,\Omega$ terminal
- DIGITAL OUTPUTS BNC connector, 75 Ω terminal
- ANALOG OUTPUTS $\mbox{BNC connector, } 75 \ \Omega \ \mbox{terminal}$
- COMBINER OUTPUTS BNC connector
- · CONTROL PANEL (RS-422)

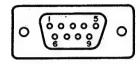


(FEMALE)

- EXIT VIEW -

Pin No.	Signal	Function
1	FG	Frame ground
2	TXA -	Transmit data (-) to control panel
3	RXB+	Receive data (+) from control panel
4	GND	Ground
5	NĊ	Not used
6	GND	Ground
7	TXB+	Transmit data (+) to control panel
8	RXA -	Receive data (-) from control panel
9	FG	Frame ground

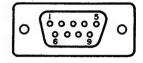
• EDITOR (RS-422)



(FEMALE)

- EXIT VIEW -

• SWITCHER (RS-422)



(FEMALE)

- EXIT VIEW -

Pin No.	Signal	Function
1 .	FG	Frame ground
2	TXA -	Transmit data (-) to editor
3	RXB+	Receive data (+) from editor
4	GND	Ground
5	NC	Not used
6	GND	Ground
7	TXB+	Transmit data (+) to editor
8	RXA -	Receive data (-) from editor
9	FG	Frame ground

Pin No.	Signal	Function
. 1	FG	Frame ground
2	TXA -	Transmit data (-) to switcher
3	RXB+	Receive data (+) from switcher
4	GND	Ground
5	NC	Not used
6	GND	Ground
7	TXB+	Transmit data (+) to switcher
8	RXA –	Receive data (-) from switcher
9	FG	Frame ground

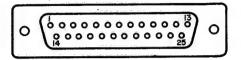
· MATRIX (RS-422)

(FEMALE)

- EXIT VIEW -

Pin No.	Signal	Function
1	FG	Frame ground
2	TXA -	Transmit data (-) to matrix switcher
3	RXB+	Receive data (+) from matrix switcher
4	GND	Ground
5	NC	Not used
6	GND	Ground
7	TXB+	Transmit data (+) to matrix switcher
8.	RXA -	Receive data (-) from matrix switcher
9	FG	Frame ground

• TERMINAL 1 (RS-232C)

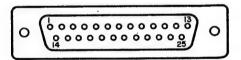


- EXIT VIEW -

(FEMALE)

Pin No.	Signal	Function	
1	FG	Frame ground	
2	TXD	Transmit data to terminal	
3	RXD	Receive data from terminal	
4~6	NC	Not used	
7	GND	Ground	
8~25	NC	Not used	

• TERMINAL 2 (RS-232C)

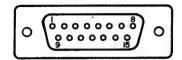


- EXIT VIEW -

(FEMALE)

Pin No.	Signal	Function	
1	FG	Frame ground	
2	TXD	Transmit data to terminal	
3	RXD	Receive data from terminal	
4~6	NC	Not used	
7	GND	Ground	
8~25	NC	Not used	

• GPI (RS-422)

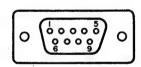


(FEMALE)

- EXIT VIEW -

Pin No.	Signal	Pin No.	Signal
1	FG	9	GPIO1G
2	GPIO1	10	GPIO2G
3	GPIO2	11	GPIO3G
4	GPIO3	12	GPIO4G
5	GPIO4	13	GPIIG
6	GPII1	14	GPII2
7	GPII3	15	GPII4
8	GPIIQ		

· GRAPHIC RGB OUT



(FEMALE)

- EXIT VIEW -

Pin No.	Signal	Pin №.	Signal
1	FG	6	SYNC
2	GND	7	R
3	GND	8	G
4	GND	9	В
5	GND		

2-8. RACK MOUNTING

The DME-5000 can be used by mounting it on a 19-inch standard rack. When you use the rack, make sure to use the optional RMM-18DV rack mount rail.

< Items to be procured for mounting >

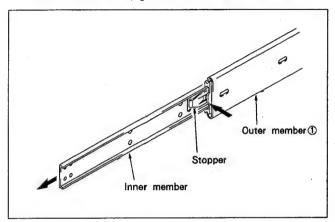
- · RMM-18DV rack mount rail
- · Screws for attaching the plate nut (+B4x8) 8 pieces
- · Rack mount screws (+RK5x16) 4 pieces
- Rack mount decoration washers 4 pieces (Sony part number 2-297-913-01)

< Precautions on installation >

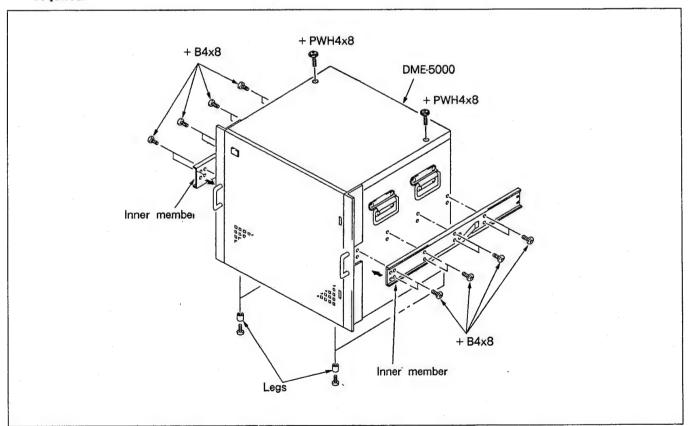
- (1) When you install the DME-5000 and related units in the 19-inch standard rack, it is recommended that you install a ventilation fan to prevent the temperature in the rack from rising. Make sure that all the units in the rack operate in the temperature range of 5°C to 40°C.
- (2) When you install the unit in the rack, make sure to use the specified rail. The unit cannot be secured to the rack by the rack angles alone and such an installation is hazardous.
- (3) It is recommended to fix the rack to a solid floor with bolts. It is hazardous if the rack falls on you when you remove the unit from the rack.
- (4) The package of RMM-18DV rack mount rail contains a supplied installation manual. That manual, however, contains instructions for installing the DVR series VTRs on the rack. Since the procedure for mounting the DME-5000 differs partly from the procedure for mounting the VTR, use the procedure given in this manual instead.

< Installation method >

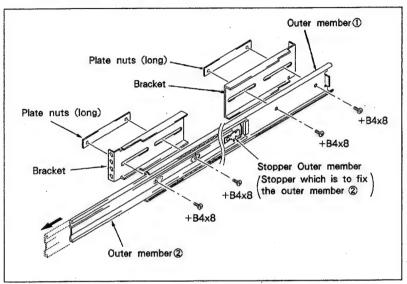
(1) While pressing the stopper of the RMM-18DV rack mount rail, pull out the inner member.



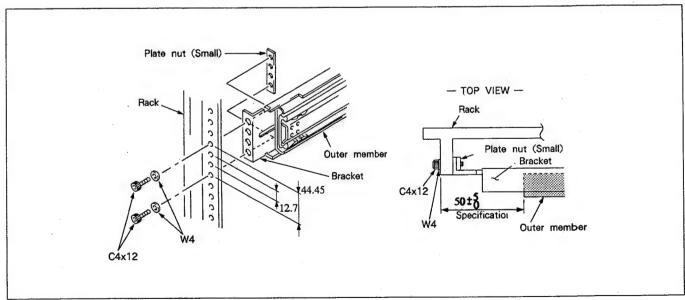
(2) Use the 16 screws (+B4x8) supplied with the RMM-18DV to attach the inner member to the unit. Remove the 2 screws (+PWH4x8) on the top panel. Remove the legs of the unit as required.



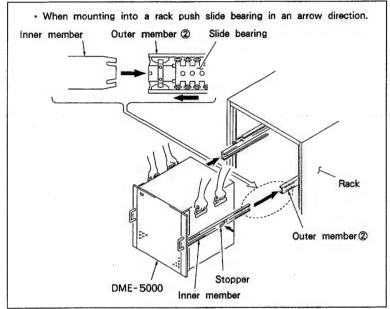
(3) Use the 8 screws (+ B4x8) procured for mounting to fix the bracket lightly to the outer member ①. At this time, move the outer member ② forward and backward so the screw hole of outer member ① can be seen.



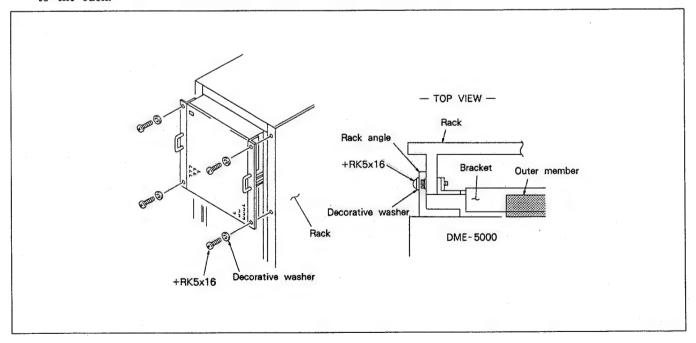
(4) Use the 4 screws (C4x12) and washers (W4) supplied with the RMM-18DV to fix the outer member assembly lightly to the rack. At this time, adjust the installing position of the outer member. After adjustment, tighten the screws (+ B4x8) that were lightly fixed in step (3).



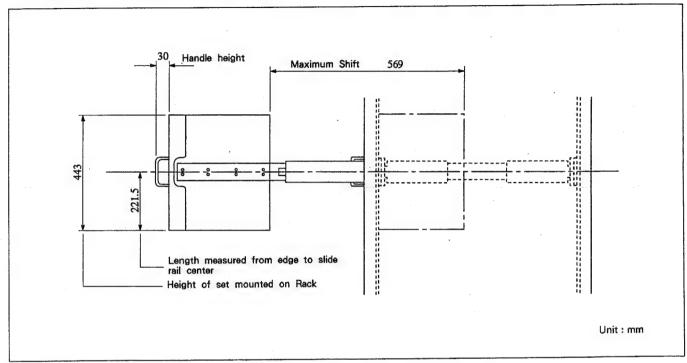
(5) Before you place the unit in the rack, release the stopper of the inner member. After making sure the unit can be smoothly placed in the rack, tighten the screws (C4x12) that were lightly fixed in step (4).



(6) After you placed the unit in the rack, use the 4 screws (+ RK5x16) and four decoration washers procured for mounting to fix the unit to the rack.



 The maximum distance when the DME-5000 is mounted in the rack is indicated below.



2-9. SUPPLIED ACCESSORIES

• EX-270 Extension Board	(1)
• Power Cord	(1)
· Power Coard Adapter	(1)
• 75 Ω Terminator	(1)
· Operation and Maintenance Manual	(1)

2-10. OPTIONAL ACCESSORIES

BKDM-5010 : Composite Input/Output Board
 BKDM-5011 : Component Input/Output Board
 (to be available soon)
 BKDM-5012 : Digital Composite IN/OUT Board
 BKDM-5013 : Digital Input/Output Board
 (to be available soon)
 BKDM-5020 : Digital Combiner Board
 (to be available soon)
 BKDM-5021 : Digital Combiner Board
 (to be available soon)
 BKDM-5030 : Non-linear Effects Board

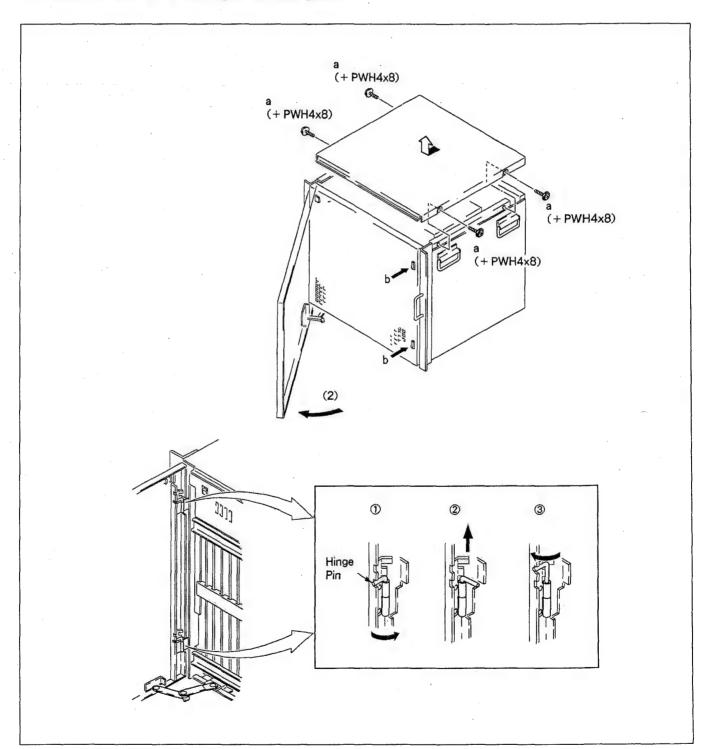
(to be available soon)

• BKDM-5060 : Graphic Data Display Board (to be available soon)

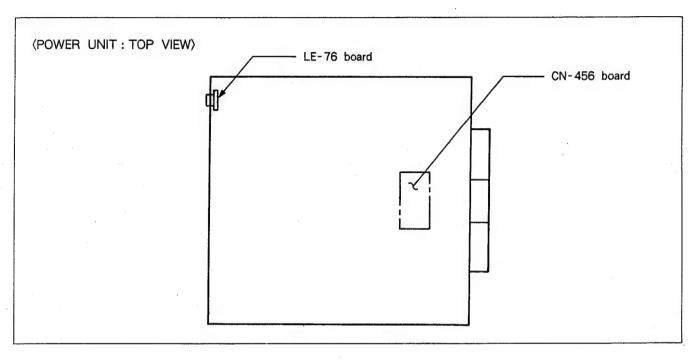
SECTION 3 SERVICE INFORMATION

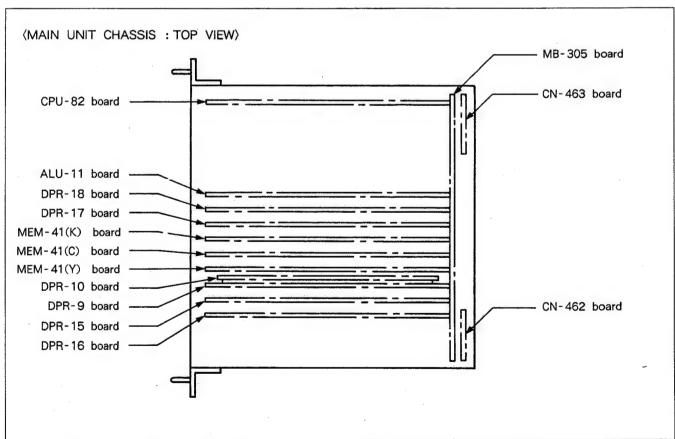
3-1. REMOVAL OF PANELS

- (1) Remove 4 screws of "a" (+PWH4x8), and remove the upper panel by pulling it out in your direction.
- (2) Release the lock of "b" and open the front panel.
- (3) Lift the hinge pin and to the upper groove as shown in inset figures ① to ③ to remove the front panel.



3-2. LOCATION OF PRINTED CIRCUIT BOARDS





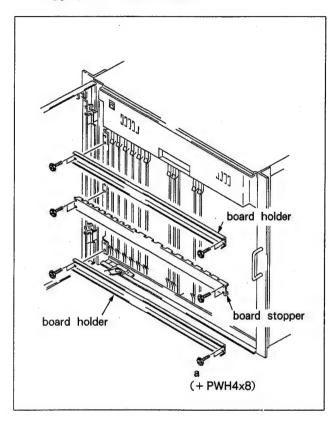
3-3. CIRCUIT INFORMATION

Board	Function
ALU - 11	Real-time Numeric Data Processor
CN - 456	Power Supply Connector Board
CN - 462	BNC Connector Board
CN - 463	D SUB Connector Board
CPU - 82	System Control and Communications
DLP - 9	Horizontal and Vertical Low Pass Filter
DLP - 10	IIR Vertical Low Pass Filter
DPR - 15	Input Pixel Effect Generator and Motion Detect
DPR - 16	Output Recursive Effect Generator and Border Generator
DPR - 17	Memory Address Selector and Write Address Generator
DPR - 18	Read Address Generator and Split Mirror Generator
LE - 76	Power LED Board
MB - 305	Mother Board
MEM - 41	3 Field Video Memory and Interpolator

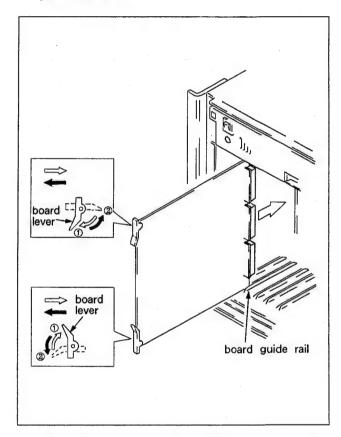
DME-5000

3-4. HOW TO INSTALL AND REMOVE THE BOARDS

(1) Remove 12 screws of "a" (+ PWH4x8), board stopper, and board holder.



- (2) Insert the board in the slot along the board guide rail. To install the board, press the board lever in the direction of arrow ② while pushing the board inside.
- (3) To remove the board, pull the board lever in the direction of arrow ① and pull out the board in your direction.

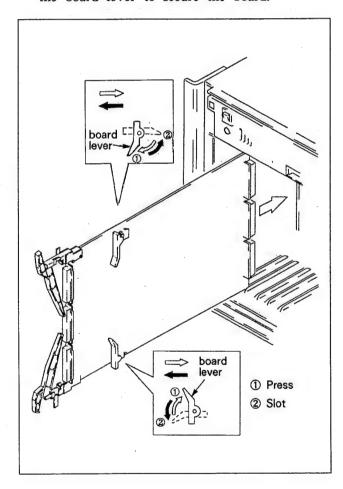


Note) After installing the board, check whether the connector is firmly connected to the MB-305 board.

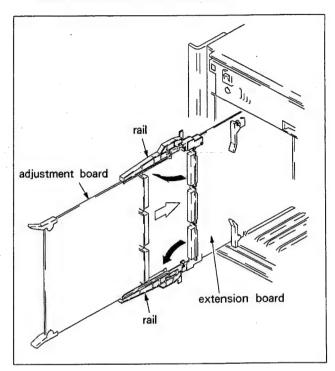
3-5. HOW TO USE THE EXTENSION BOARD

• EX-270 EXTENSION BOARD

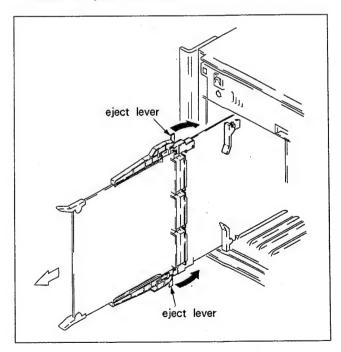
- (1) Pull out the board to be adjusted in the manner described in section 3-4. How to Install and Remove the Boards.
- (2) Insert the extension board into the slot and press the board lever to secure the board.



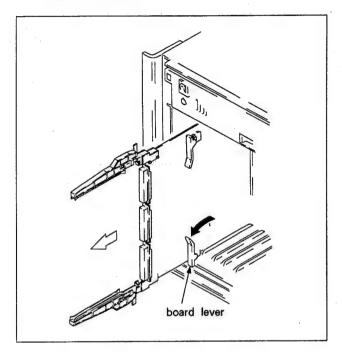
(3) Open the rail of the extension board. (Open the rail completely until it locks.) Insert the board to be adjusted along the rail of the extension board and make the adjustment.



(4) After adjustment, press the eject lever in the direction of arrow and pull out the adjustment board in your direction.



(5) Push the board lever in the direction of arrow and remove the extension board by pulling it in your direction.



3-6. SERVICE PARTS

(1) Safety Related on Components Warning Components with on the schematic diagrams, exploded views and electrical spare parts list are to maintain safe operation. Replace these components with Sony parts specified in this manual or in service manual supplements published by Sony.

(2) Standardization of Parts

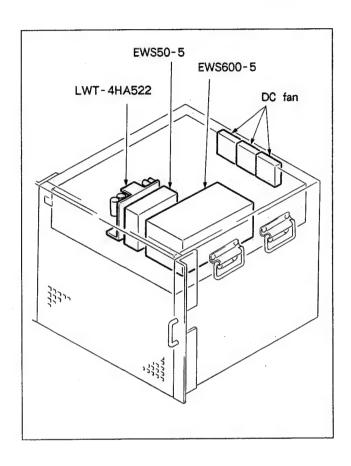
Replacement Parts supplied from Sony Parts Center may sometimes have different shape and outside view from the parts which are actually in use. This is due to "standardization of genuine parts". This manual's exploded view and electrical spare parts list are indicating the part numbers of "the standardized genuine parts at present".

(3) Stocked of Parts

The parts marked with "s" in the SP column of the exploded views and electrical spare parts lists are normally stocked for customer's inquiry. However, orders for parts, marked with "o" may not be ready which require additional delivery time when ordered.

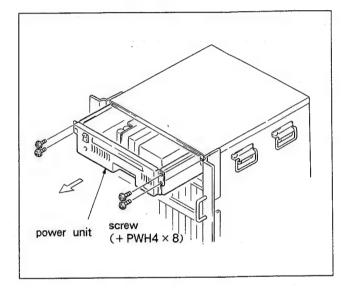
SECTION 4 REPLACEMENT OF MAIN PARTS

4-1. LOCATION OF THE MAIN PARTS

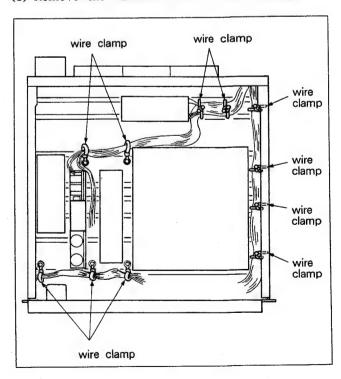


4-2. REPLACEMENT OF THE SWITCHING REGULATORS

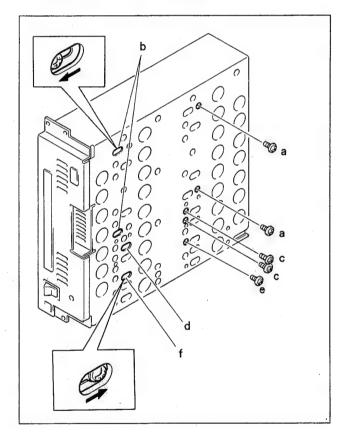
- (1) Remove the front panel in the manner described in section 3-1.
- (2) Remove 4 screws (+PWH4x8) and pull out the power unit in your direction.



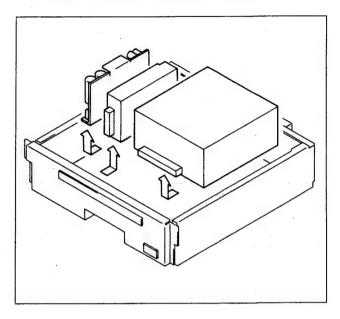
(3) Remove the harness from 11 wire clamps.



- (4) Remove the screws that install the switching regulators.
- ① EWS600-5
 Remove 2 screws of "a" (+ PWH4x6) and loosen
 2 screws of "b" (+ PWH4x6).
- ② EWS50-5
 Remove 2 screws of "c" (+PWH3x5) and loosen
 1 screw of "d" (+PWH3x5).
- ③ LWT-4H522 Remove 1 screw of "e" (+PWH3x5) and loosen 1 screw of "f" (+PWH3x5).

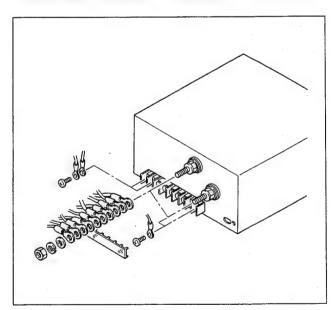


(5) Lift each switching regulator while pushing it in the direction of arrow as shown.



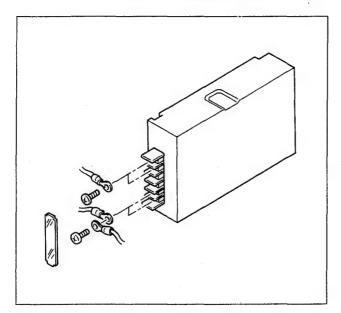
- (6) Remove the harness and connectors.
- ① EWS600-5

Loosen 2 nuts of the switching regulator and disconnect the harness. Remove also the terminal cover and 4 screws to disconnect the harness.



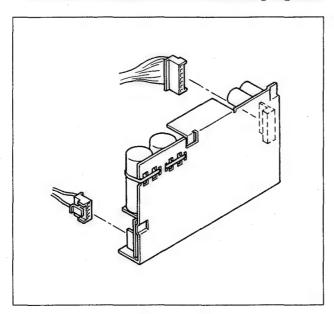
2 EWS50-5

Remove the terminal cover and 4 screws of the switching regulator to disconnect the harness.



3 LWT-4H522

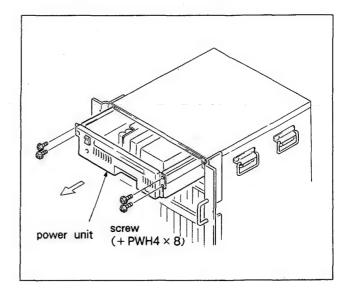
Disconnect 2 connectors of the switching regulator.



- (7) Remove the switching regulator.
- (8) Install the switching regulator in the reverse order of removal.

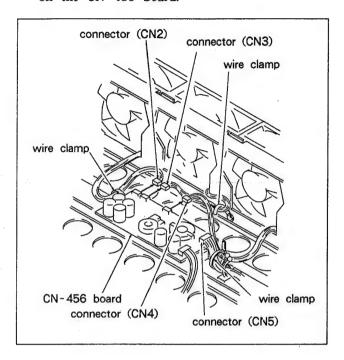
4-3. REPLACEMENT OF THE DC FAN

- (1) Remove the front panel in the manner described in section 3-1.
- (2) Remove 4 screws (+PWH4x8) and pull out the power unit in your direction.

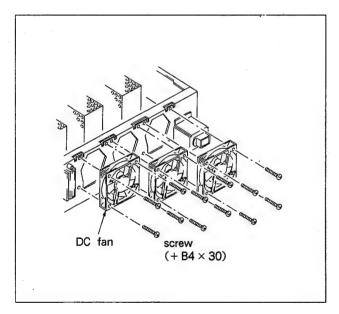


- (3) Remove the harness from 2 wire clamps.
- (4) Cut the wire clamps that fasten the connectors (CN4 and CN5).

(5) Disconnect the connectors (CN2, CN3, and CN4) on the CN-456 board.



(6) Remove 4 screws (+B4x30) and remove the DC fan.



(7) Perform steps (1) to (6) in reverse to install the new DC fan.

SECTION 5 TECHNICAL INFORMATION

5-1. DEFECTIVE PARTS DIAGNOSTICS

- (1) Trouble in BORDER, EXTKEY, MOSAIC, LIGHTING, and motion detect If you turn ON 1, 2, and 3 of S1 on the DPR -15 board when there is any trouble in BORDER, EXTKEY, MOSAIC, LIGHTING, or motion detect, the Y, C, and K boards will assume a through mode. If the trouble can be corrected under this condition, the DPR-15 board is defective.
- (2) Trouble in RECURSIVE effect, DROPSHADOW, MULTI FREEZE, and MONTAGE. If you turn ON 1, 2, and 3 of S7 on the DPR -16 board when there is any trouble in RECURSIVE effect, DROPSHADOW, MULTI FREEZE, and MONTAGE effect, the Y, C, and K boards will assume a through mode. If the trouble can be corrected under this condition, the DPR-16 board is defective.
- (3) Trouble in MIRROR, SPLIT, and MULTI MOVE effect.
 If you turn ON 1 of S8 on the DPR-18 board when there is any trouble in the shifting, enlargement/reduction, rotation, and non-linear shape effect of the image, the address at the read side will be passed. If the MIRROR, SPLIT, and MULTI MOVE effect trouble can be corrected under this condition, the DPR-18 board is defective.
- (4) Trouble in Y, C, or K board during shifting, enlargement/reduction, and rotation.
 If you turn ON 1 of S4 on the MEM-41 board when there is any trouble in the Y, C, or K board during shifting, enlargement/reduction, or rotation, the memory will be passed. If the trouble can be corrected under this condition, one of the boards MEM-41 (Y), MEM-41 (C), or MEM-41 (K) is defective.

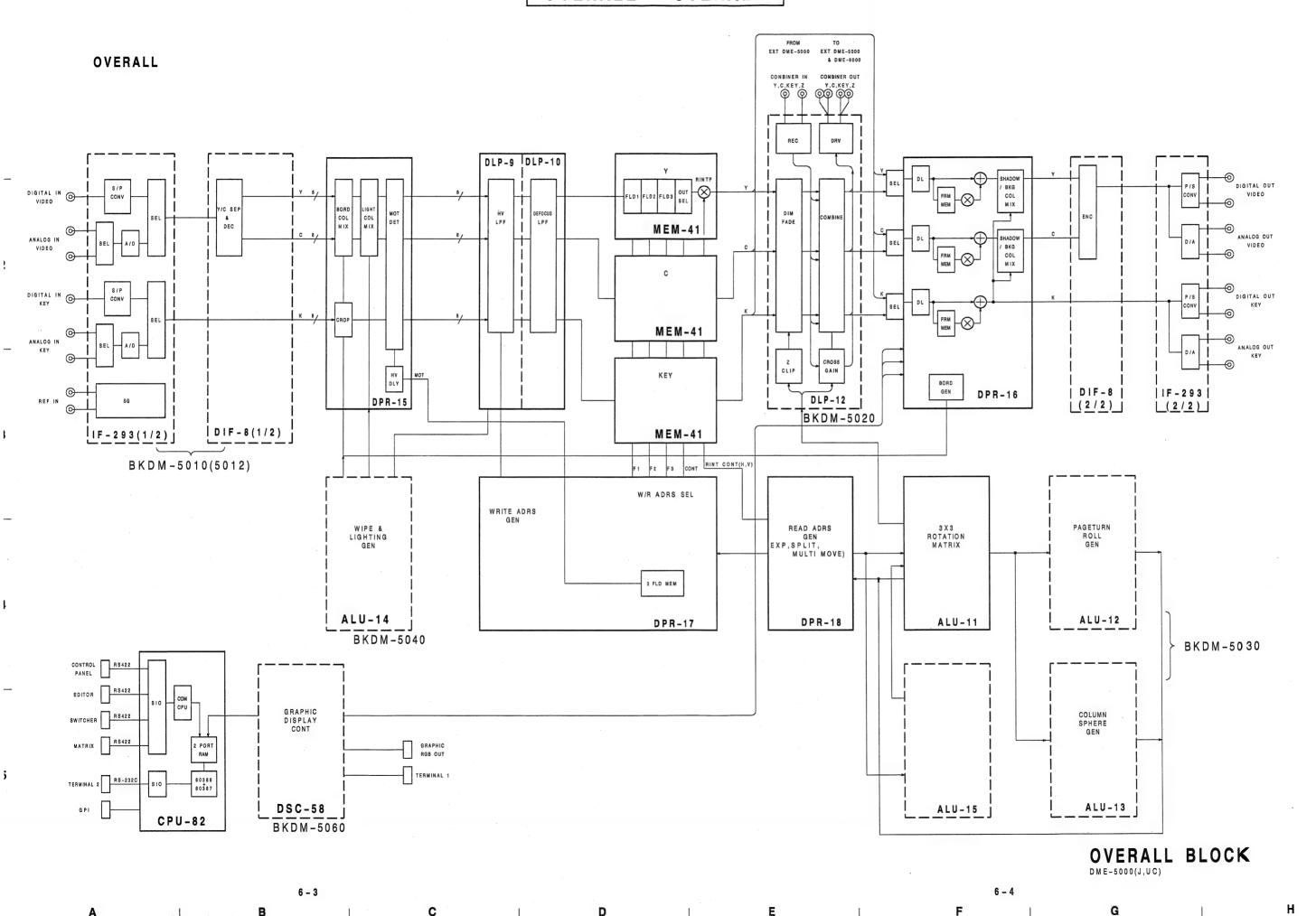
- (5) Trouble during reduction (when using the LOW PASS filter)
 - If you turn ON 1, 2, and 3 of S1 on the DLP -9 board when there is an image trouble during a particular reduction which uses the LOW PASS filter to cope with the reduction rate during reduction, the Y, C, and K boards will assume the through mode. If the trouble can be corrected under this condition, the DLP-9 board is defective.
- (6) Vertical/horizontal address error When there is a vertical/horizontal address error, if the error cannot be corrected after turning ON 1 of S4 on the MEM-41 board (any one of the Y, C, or K board) and 1 of S8 on the DPR-18 board, the DPR-17 board is possibly defective.
- (7) Trouble in shifting, enlargement/reduction, and rotation
 When there is a trouble during shifting, enlargement /reduction, or rotation, if the trouble is corrected by turning ON S8 on DPR-18 board, the ALU -11 board is possibly defective.
- (8) Power supply trouble
 - Trouble in the fan and POWER lamp indicates a defective + 5V system of LWT-4HA522 (switching power of the multi-output).
 - If the LEDs (D1 to D8) on the CPU-82 board do not light at all, the EWS600-5 power (+ 5V) supply is possibly defective.
 - Pull out the power supply unit and make sure that the power LED on the EWS600-5 power supply is illuminating.
 - If there is no analog output (sync/burst) when the analog video output power is tested using an oscilloscope, the ± 12V supply is defective.
 - When only in the digital serial is unfunctional,
 the -5V system of the EWS50-5 power supply
 is possibly defective.
 - Pull out the power supply unit and make sure that the power LED on the EWS50-5 power supply is illuminating.

5-2. SELF-DIAGNOSTICS

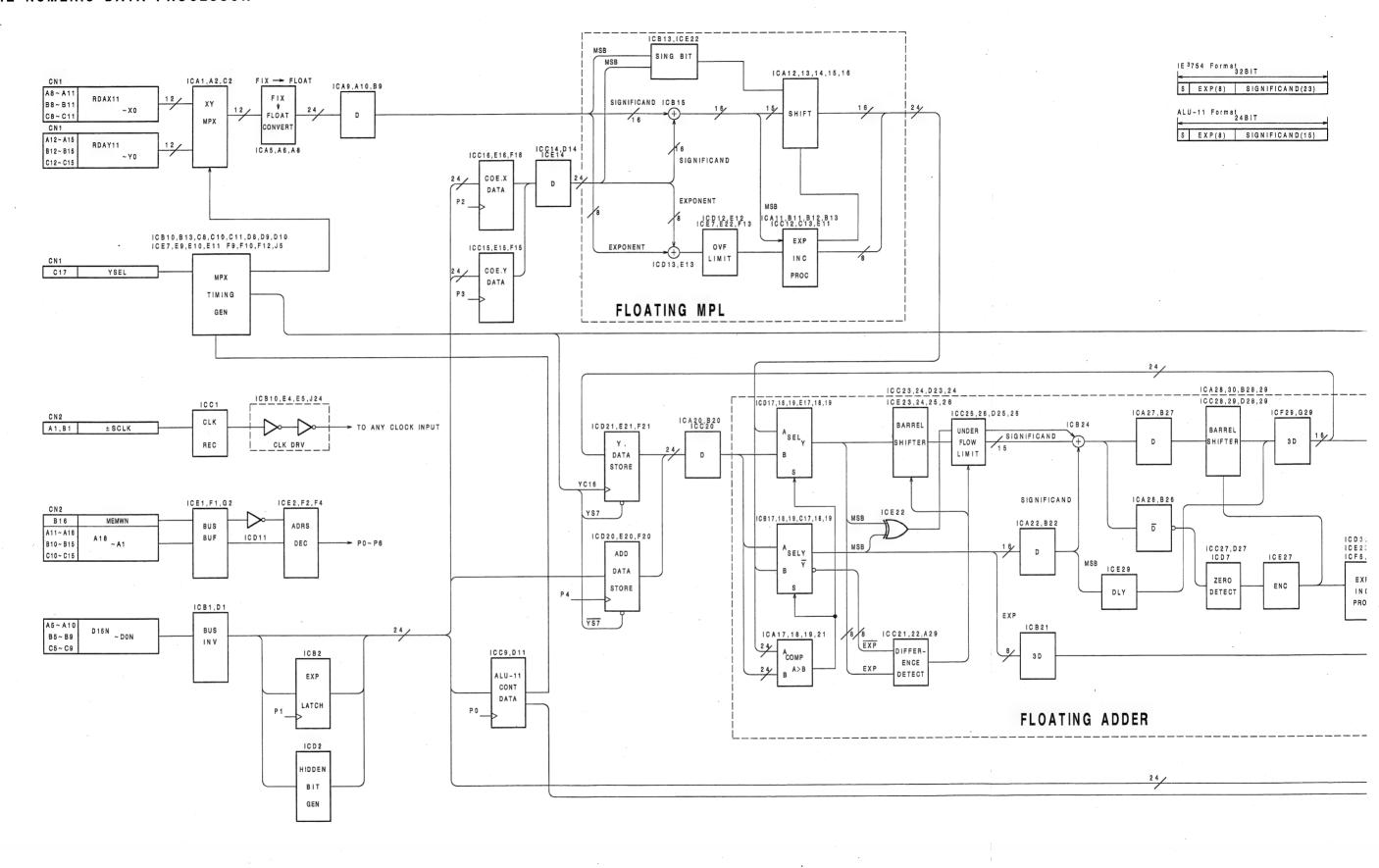
The CPU-82 board self-diagnostics can be performed using the SET UP menu of the control panel. See the Operation Manual of the control panel for details.

SECTION 6 BLOCK DIAGRAM

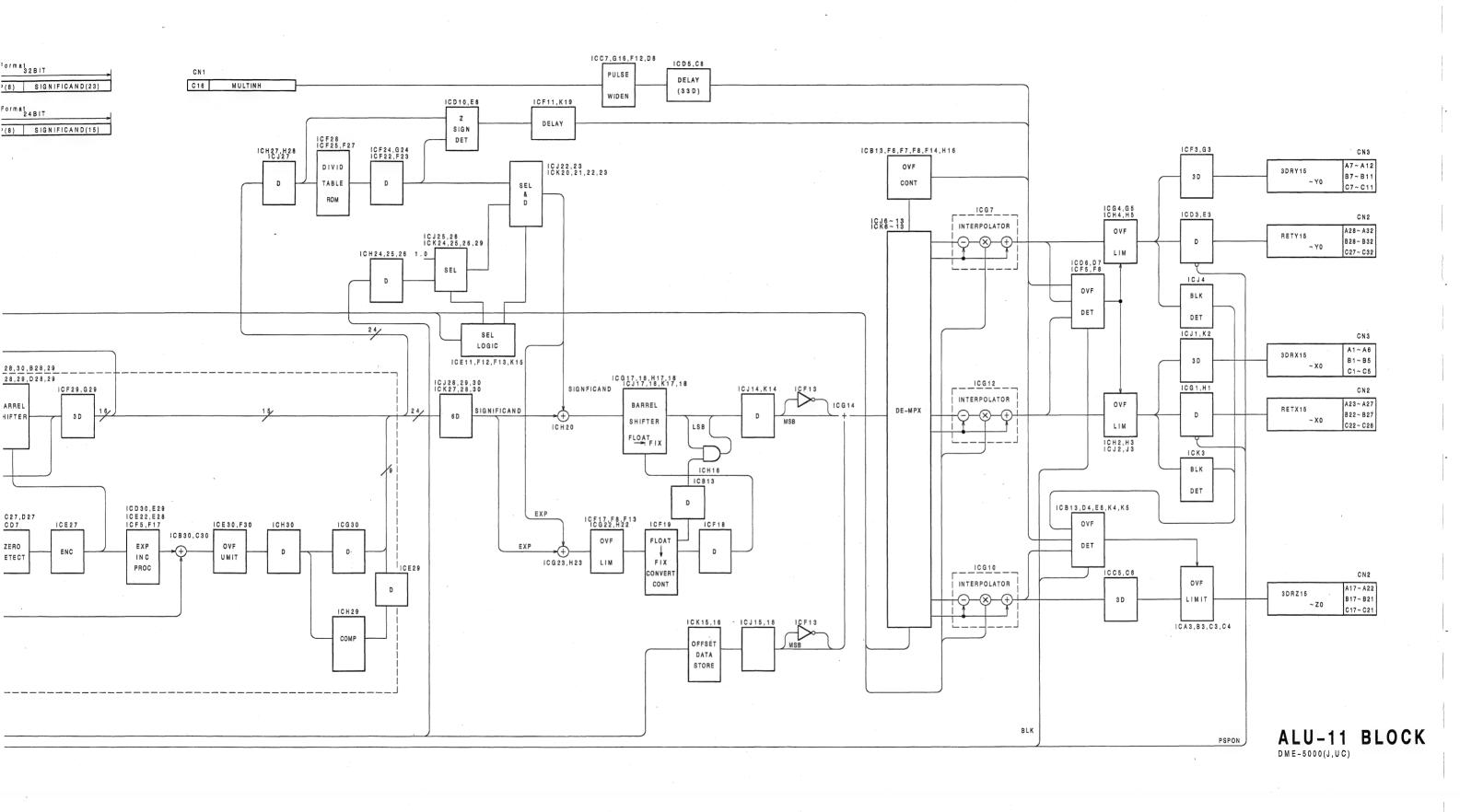
OVERALL OVERALL



REAL TIME NUMERIC DATA PROCESSOR

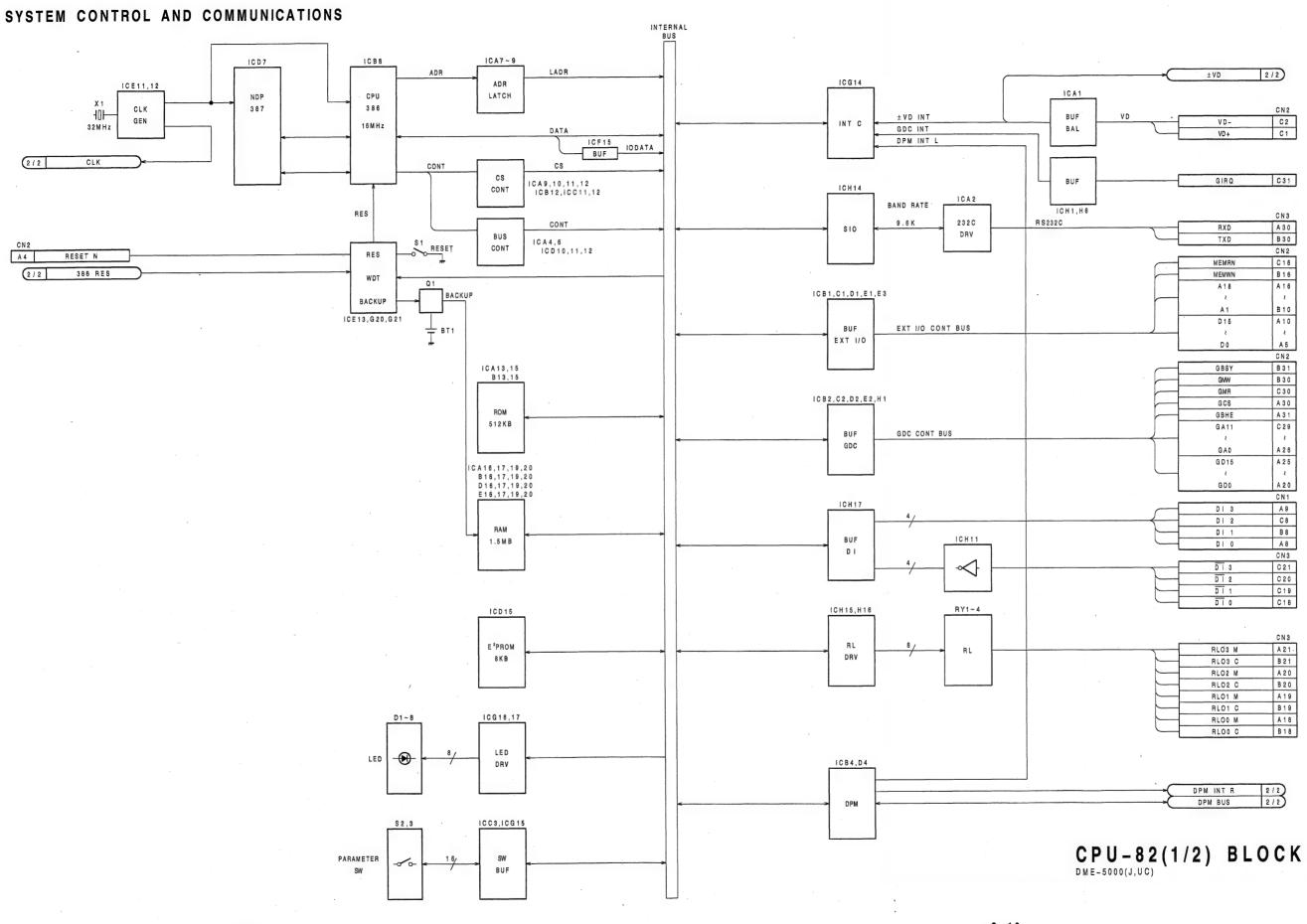


C | D | E | F | G | H



6-7 | K | L | M | N | O |

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5

D

CPU-82(1/2) CPU-82(1/2)

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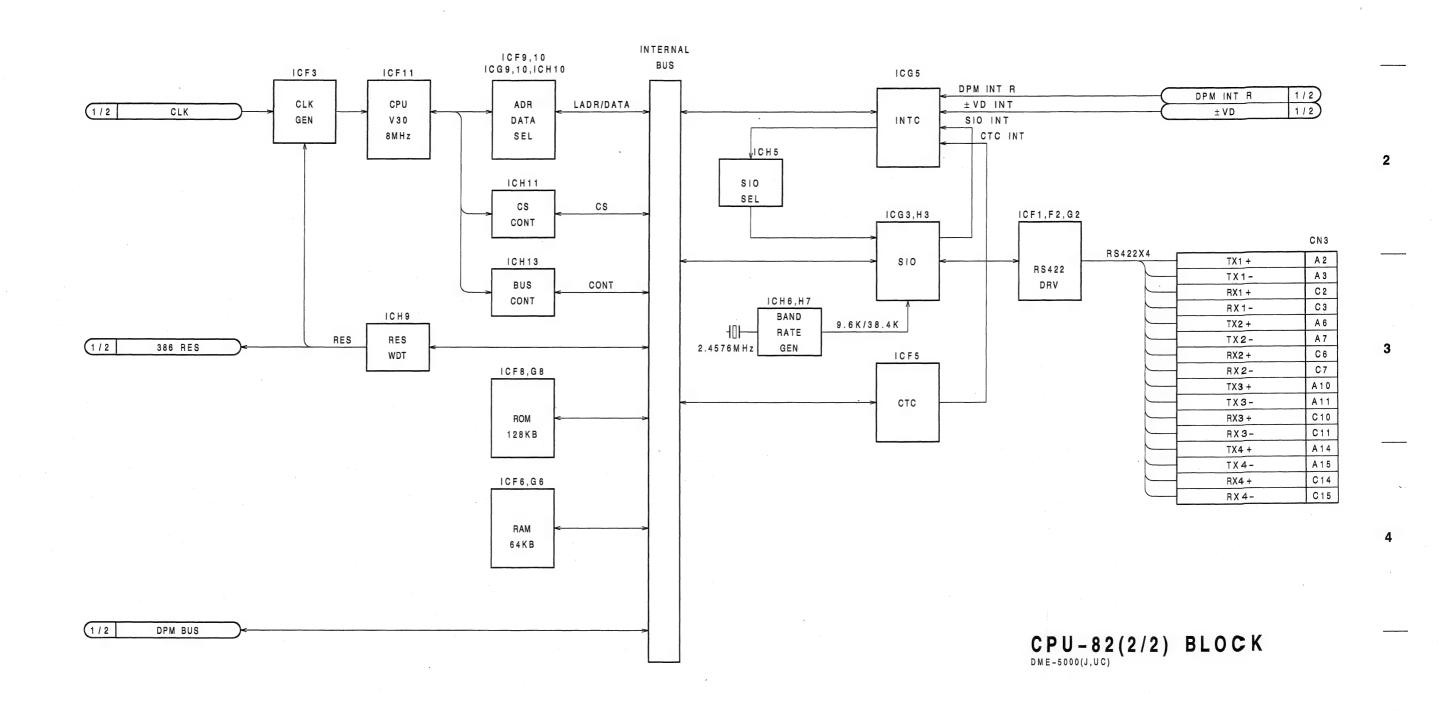
L

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6 – 1 2

O

SYSTEM CONTROL AND COMMUNICATIONS



6 - 13

C

D.

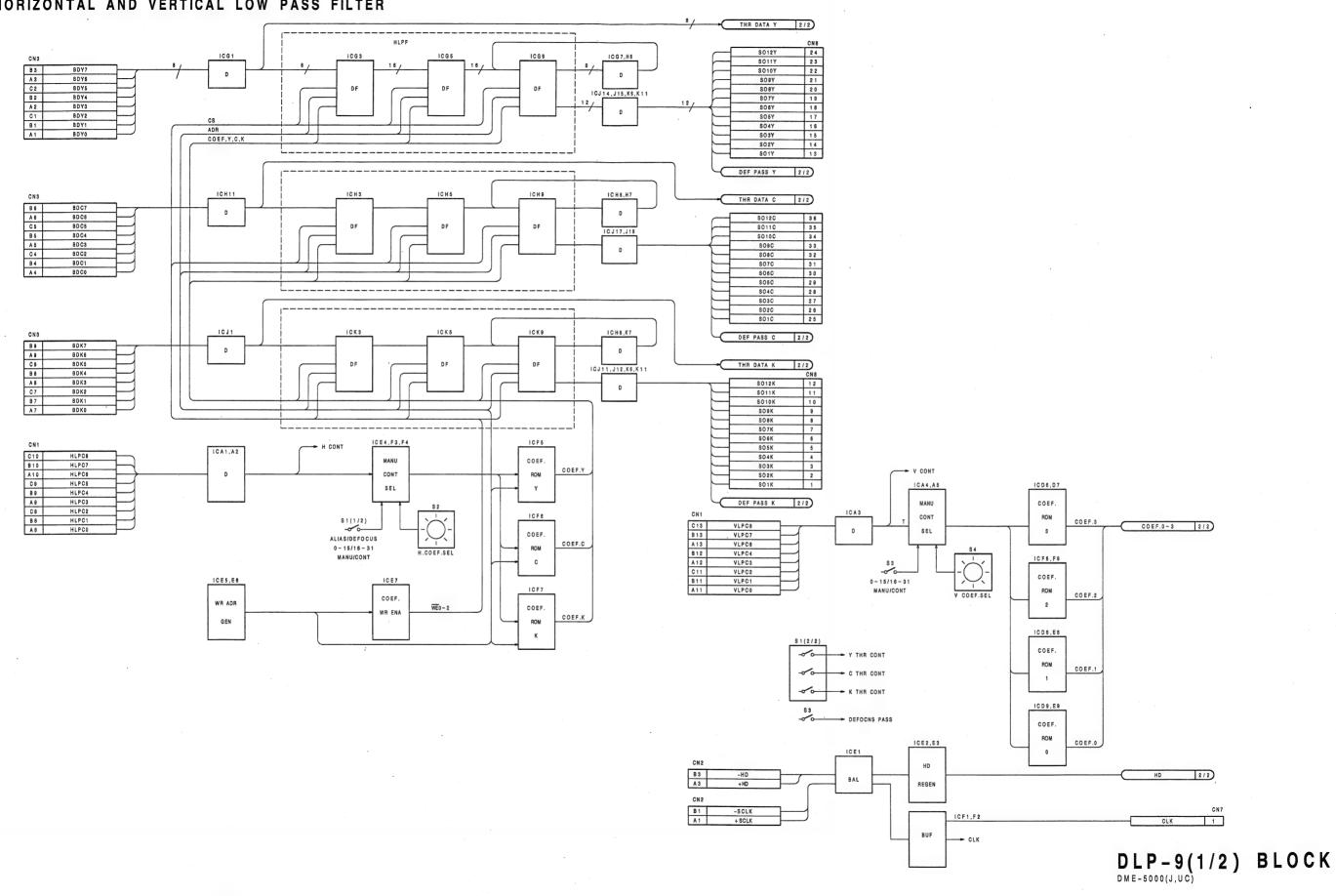
E

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G

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HORIZONTAL AND VERTICAL LOW PASS FILTER

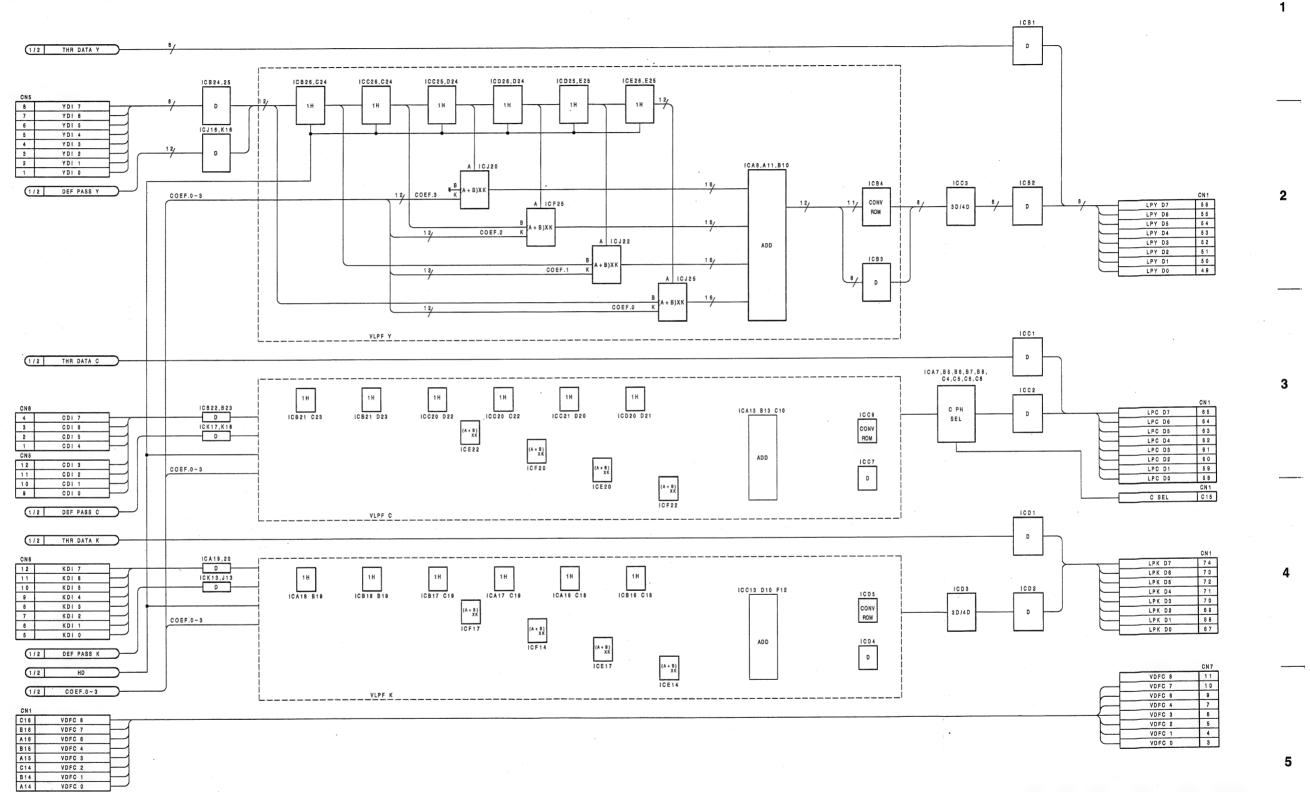


6 - 15

6 - 16

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HORIZONTAL AND VERTICAL LOW PASS FILTER

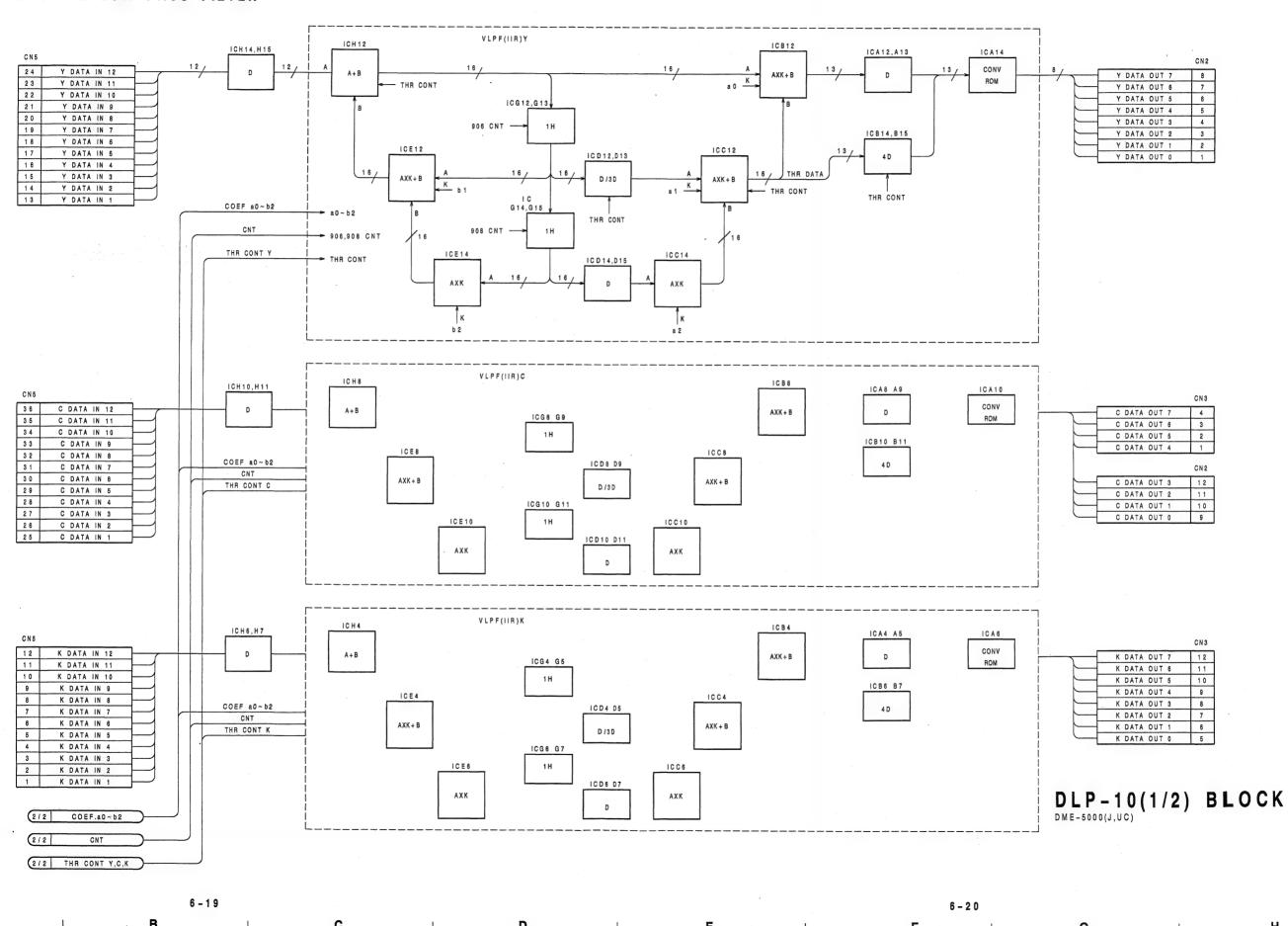


DLP-9(2/2) BLOCK
DME-5000(J,UC)

6-17
C D E F G

A

IIR VERTICAL LOW PASS FILTER



A

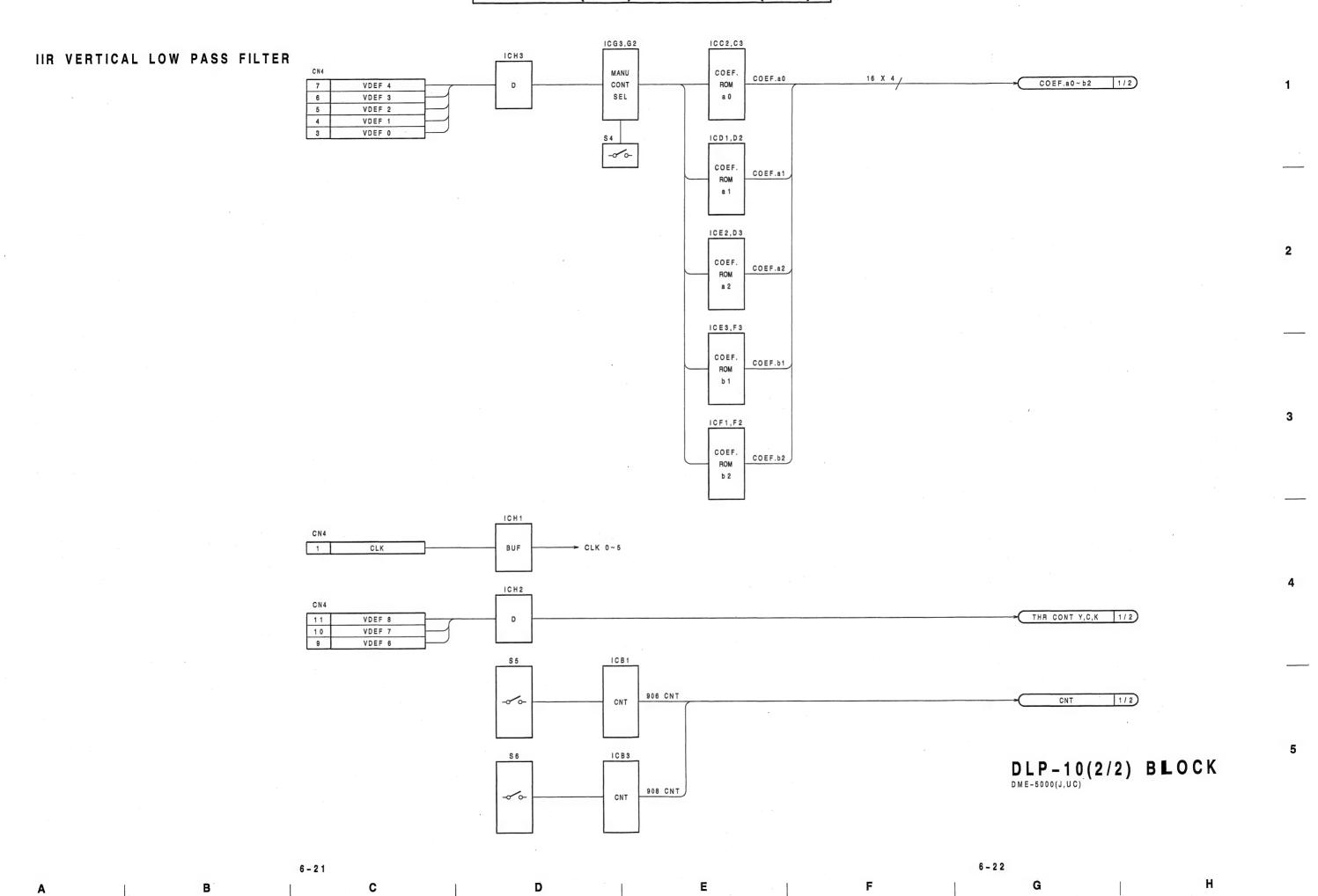
В

C

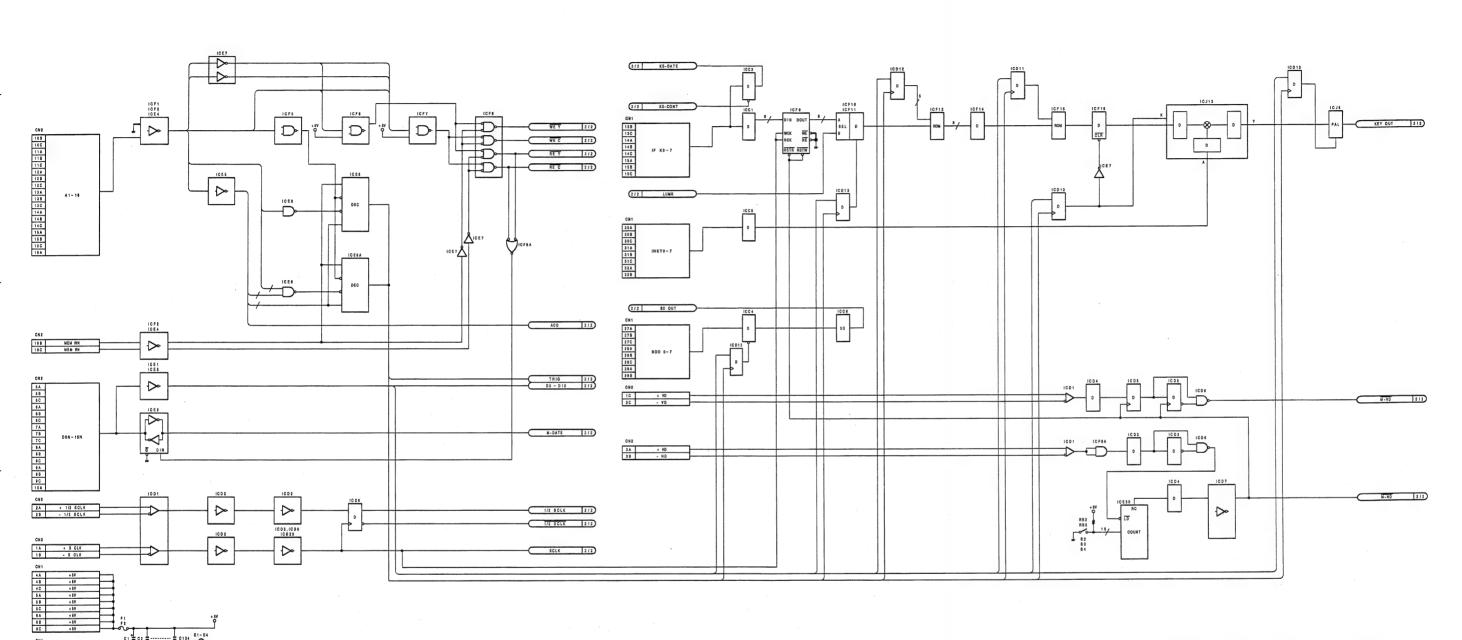
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INPUT PIXEL EFFECT GENERATOR AND MONITOR DETECT



DPR-15(1/2) BLOCK

6 – 2 3

C

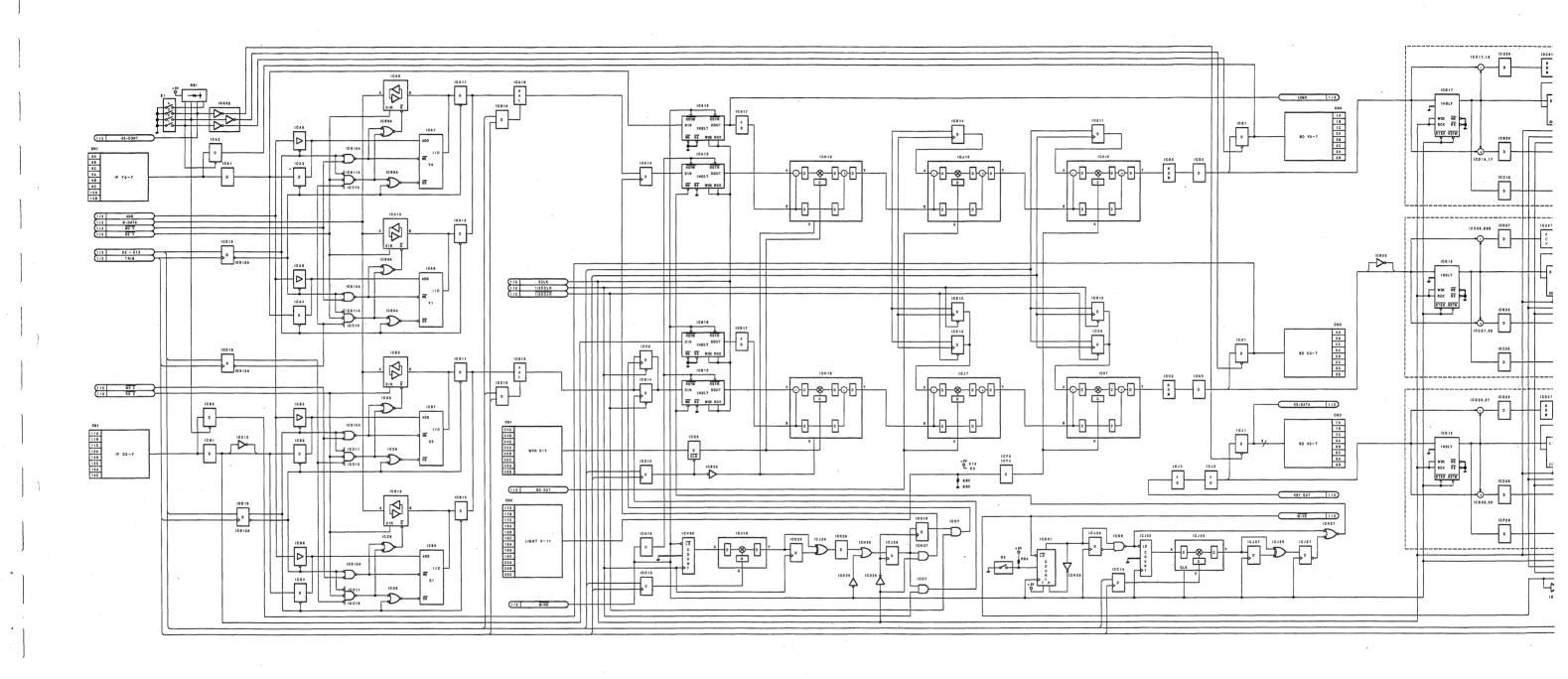
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G

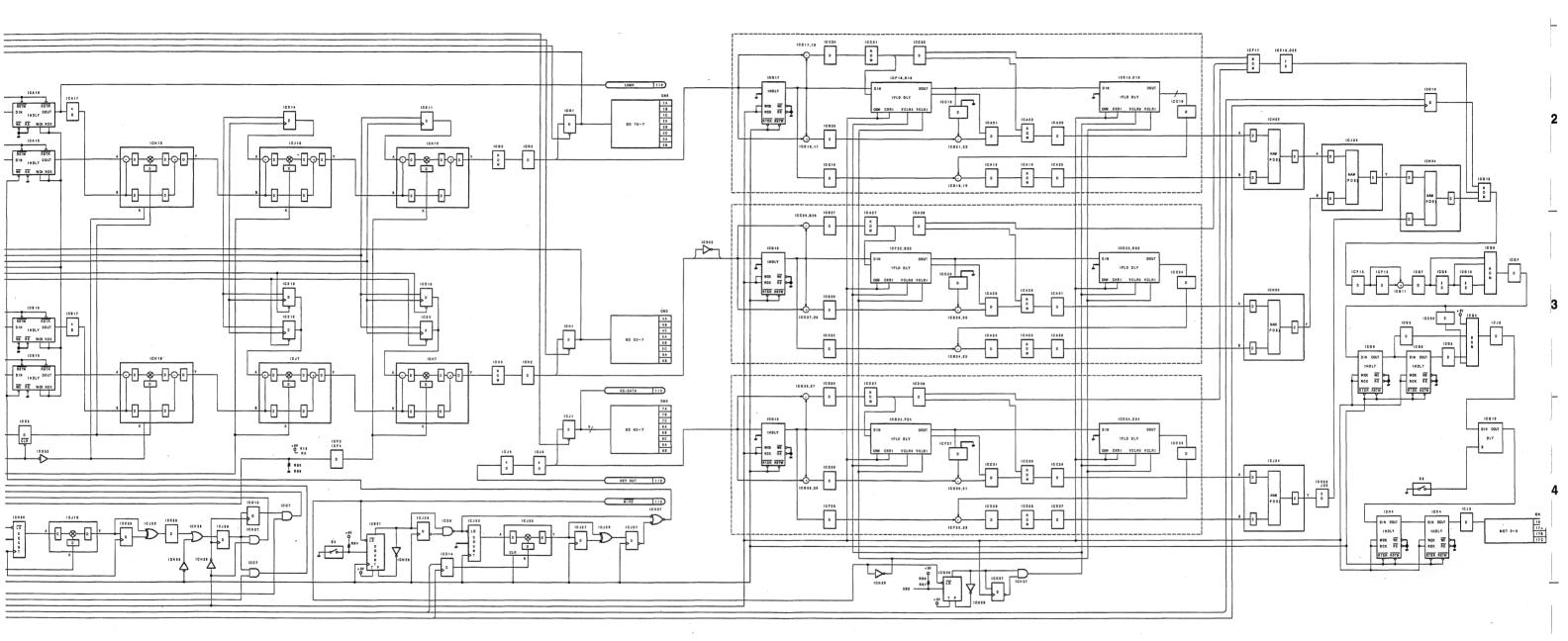
1

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INPUT PIXEL EFFECT GENERATOR AND MONITOR DETECT



B C D E F G H



DPR-15(2/2) BLOCK

6 – 2 6

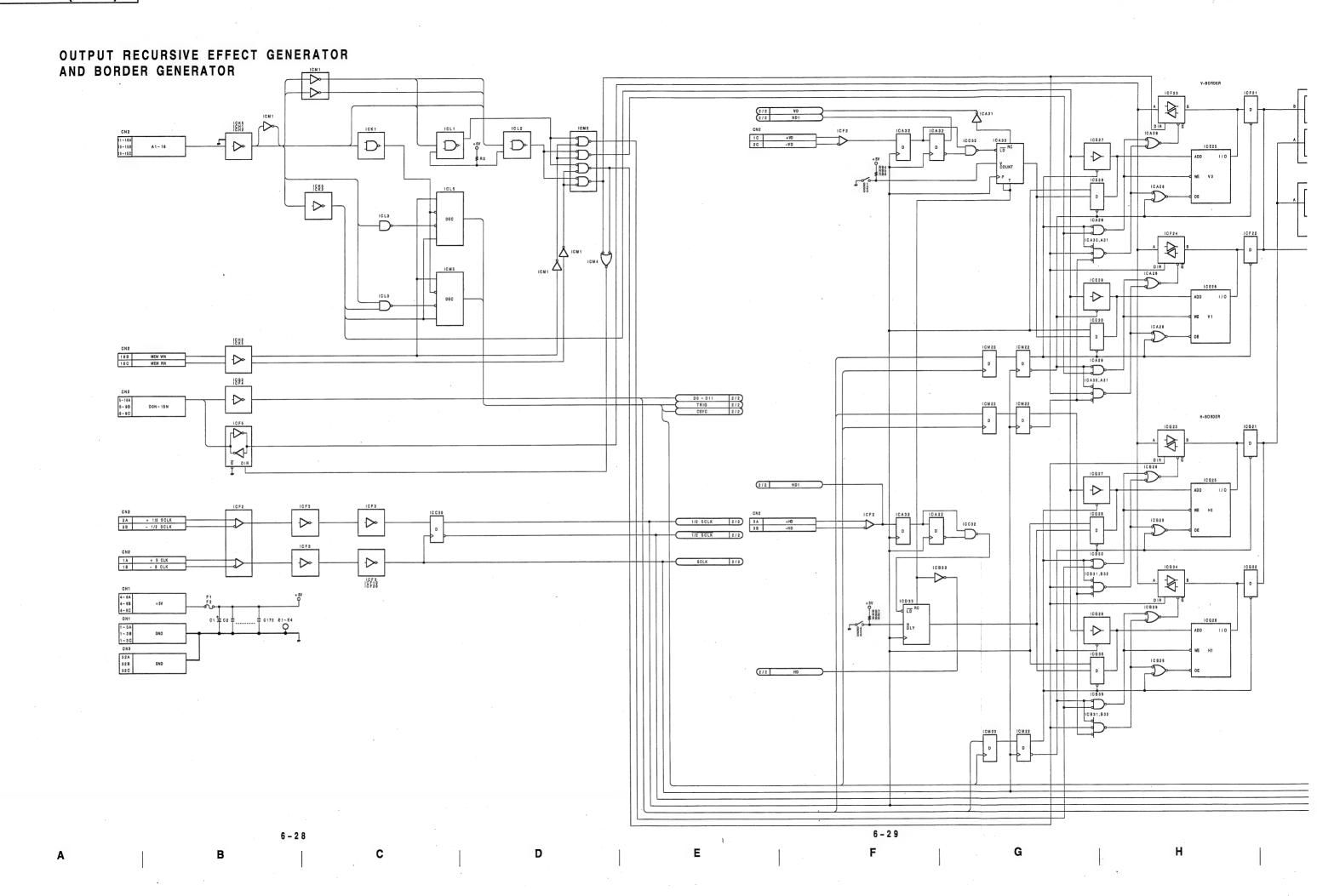
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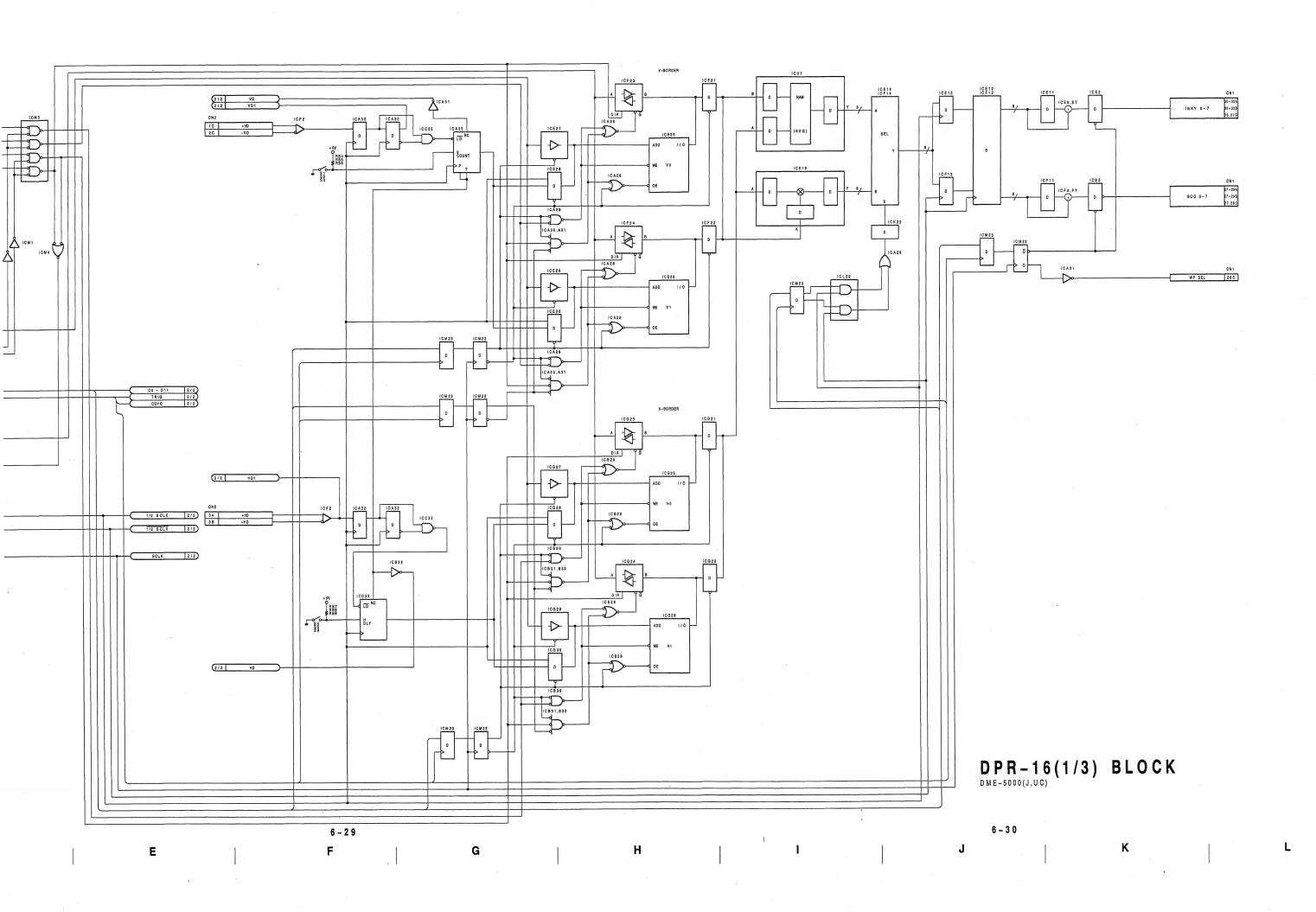
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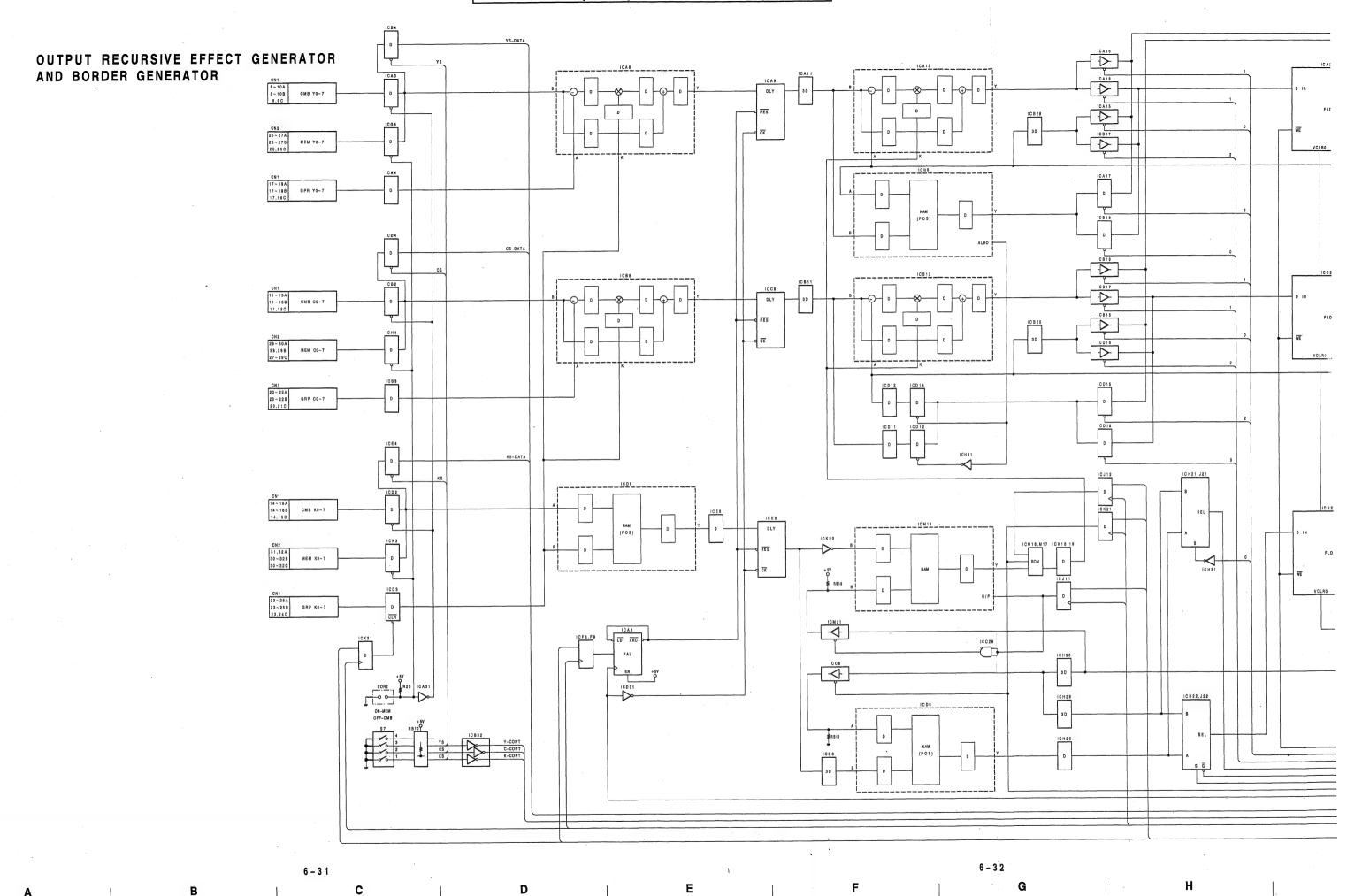
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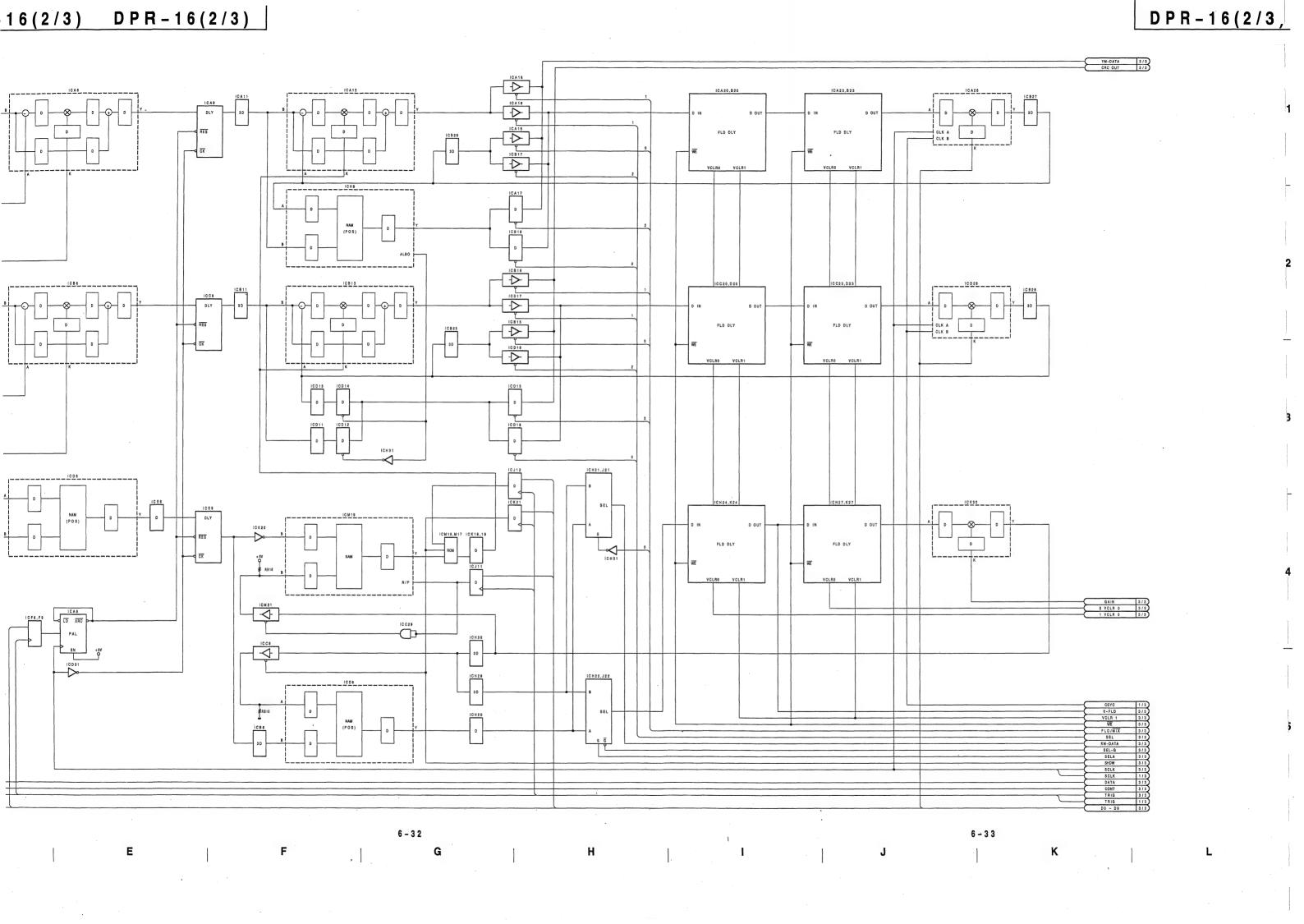
6 - 2 7

L



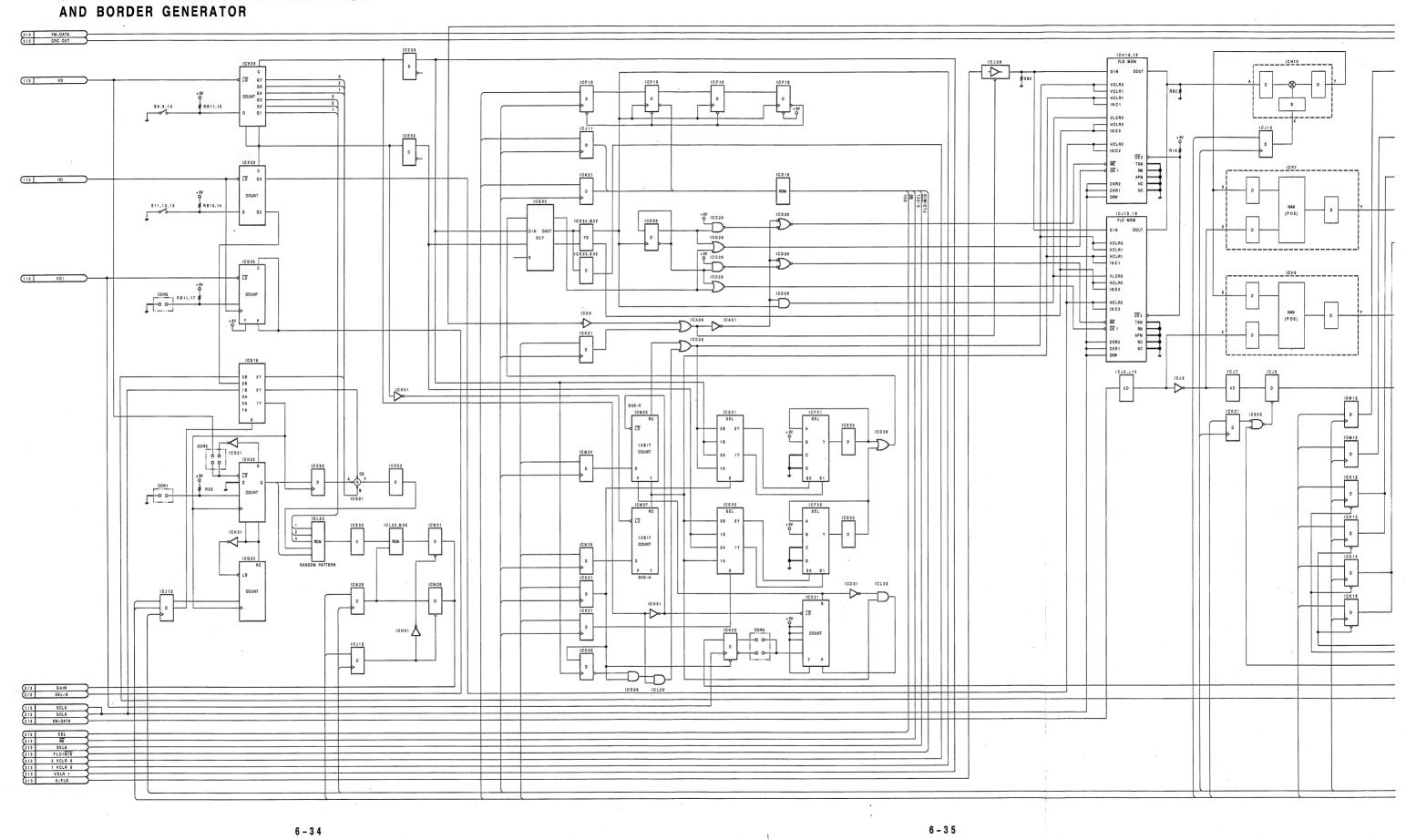


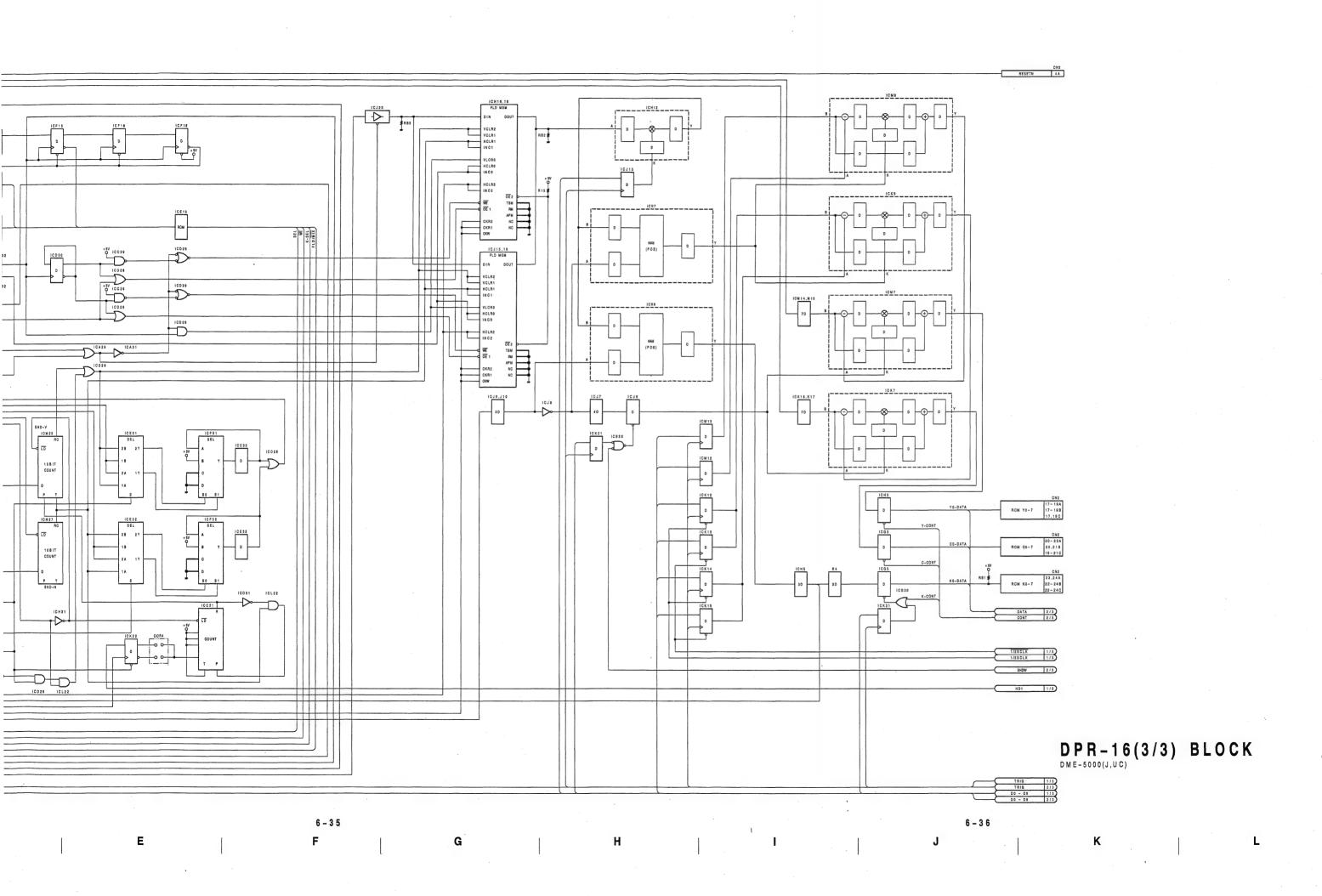




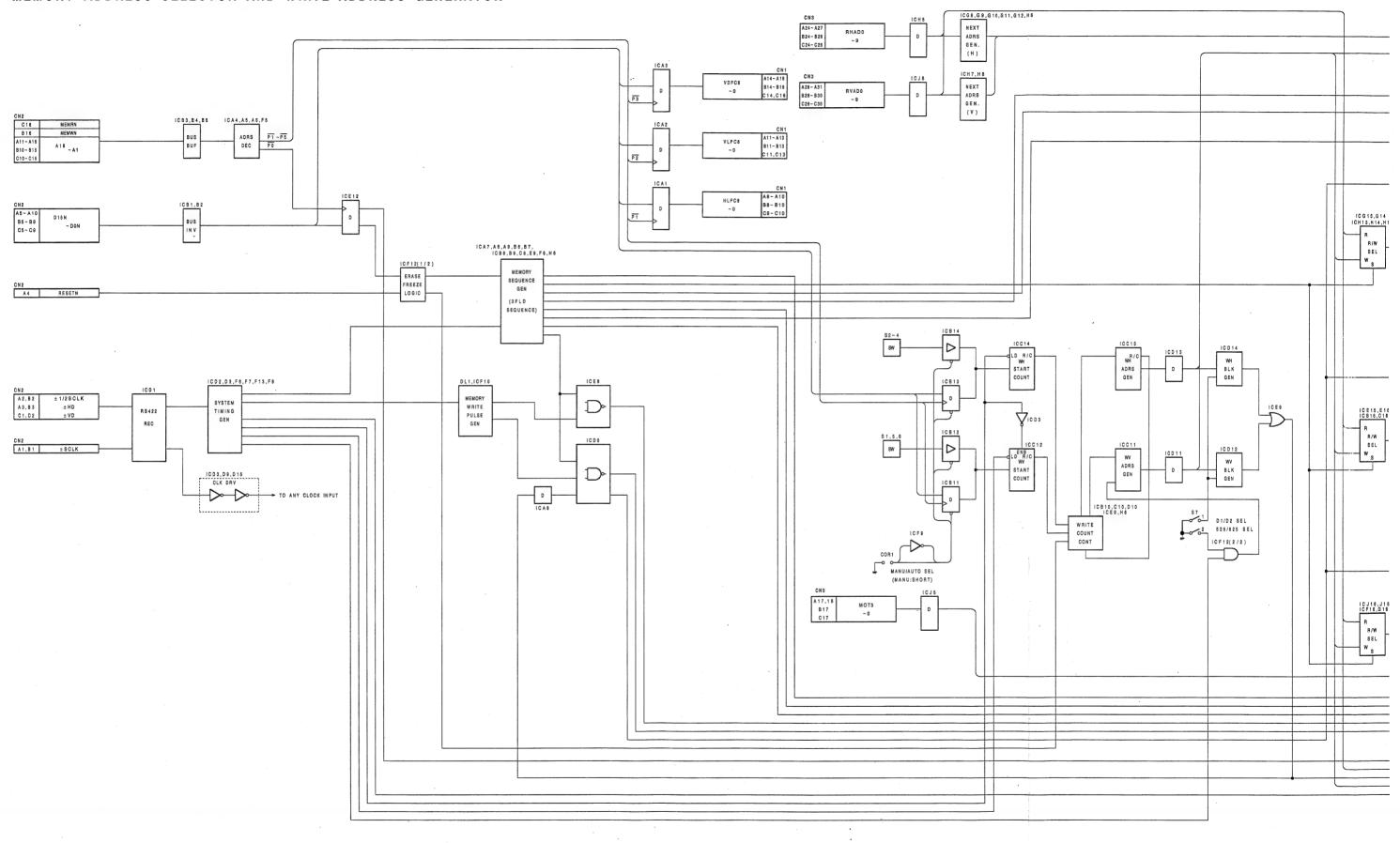
OUTPUT RECURSIVE EFFECT GENERATOR

В

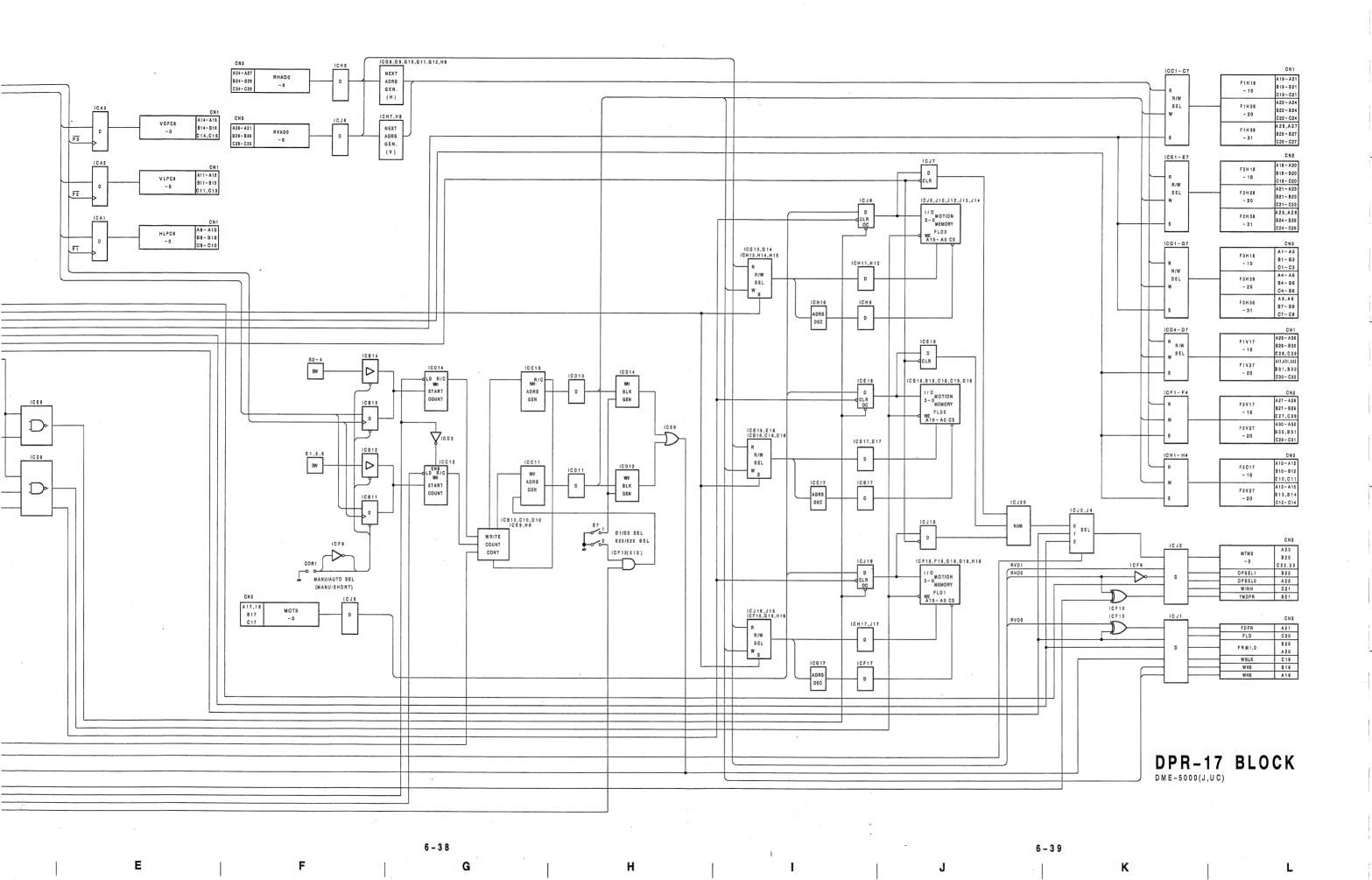




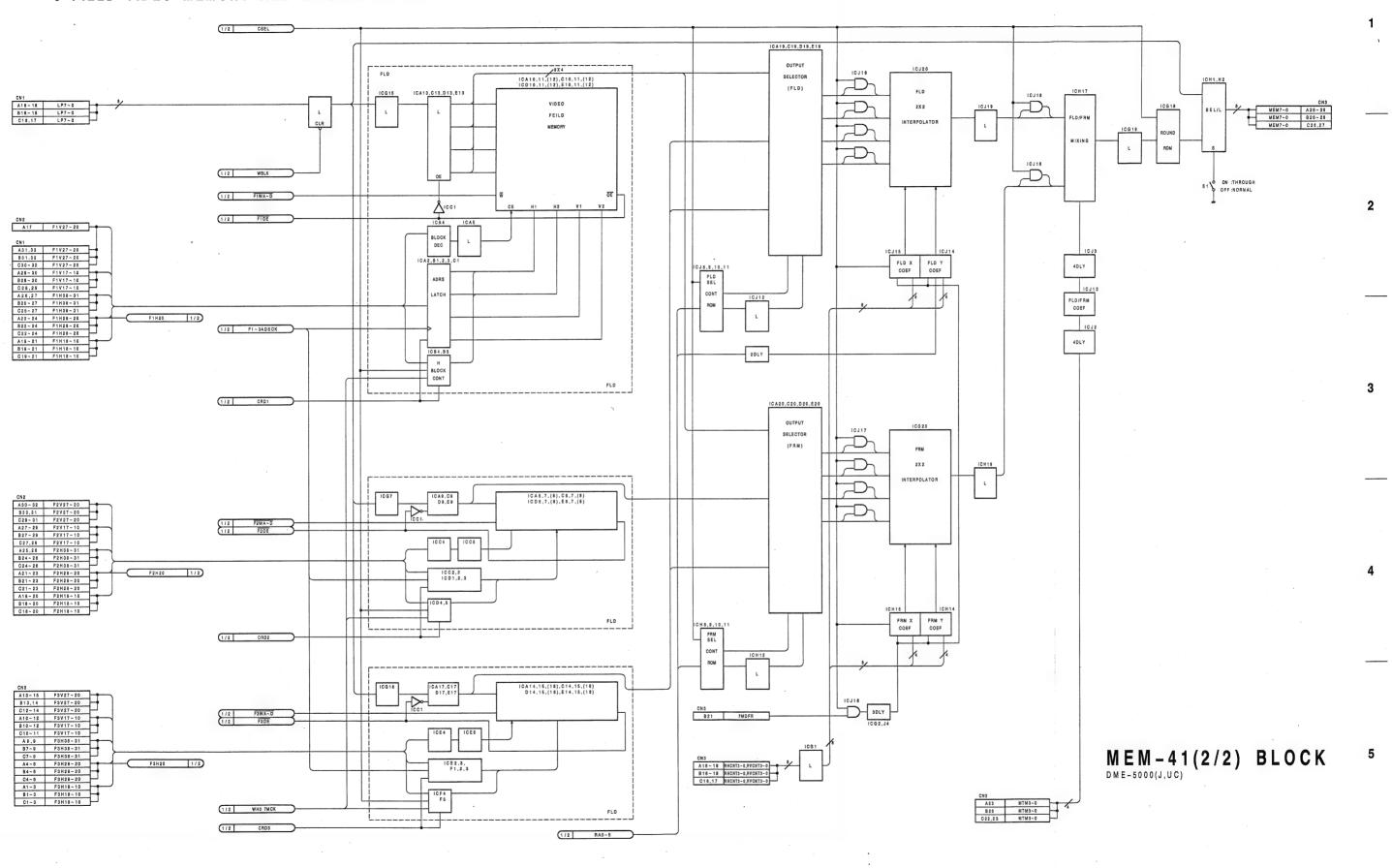
MEMORY ADDRESS SELECTOR AND WRITE ADDRESS GENERATOR



6-37 A B C D E F G H



3 FIELD VIDEO MEMORY AND INTERPOLATOR



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6 – 4 7

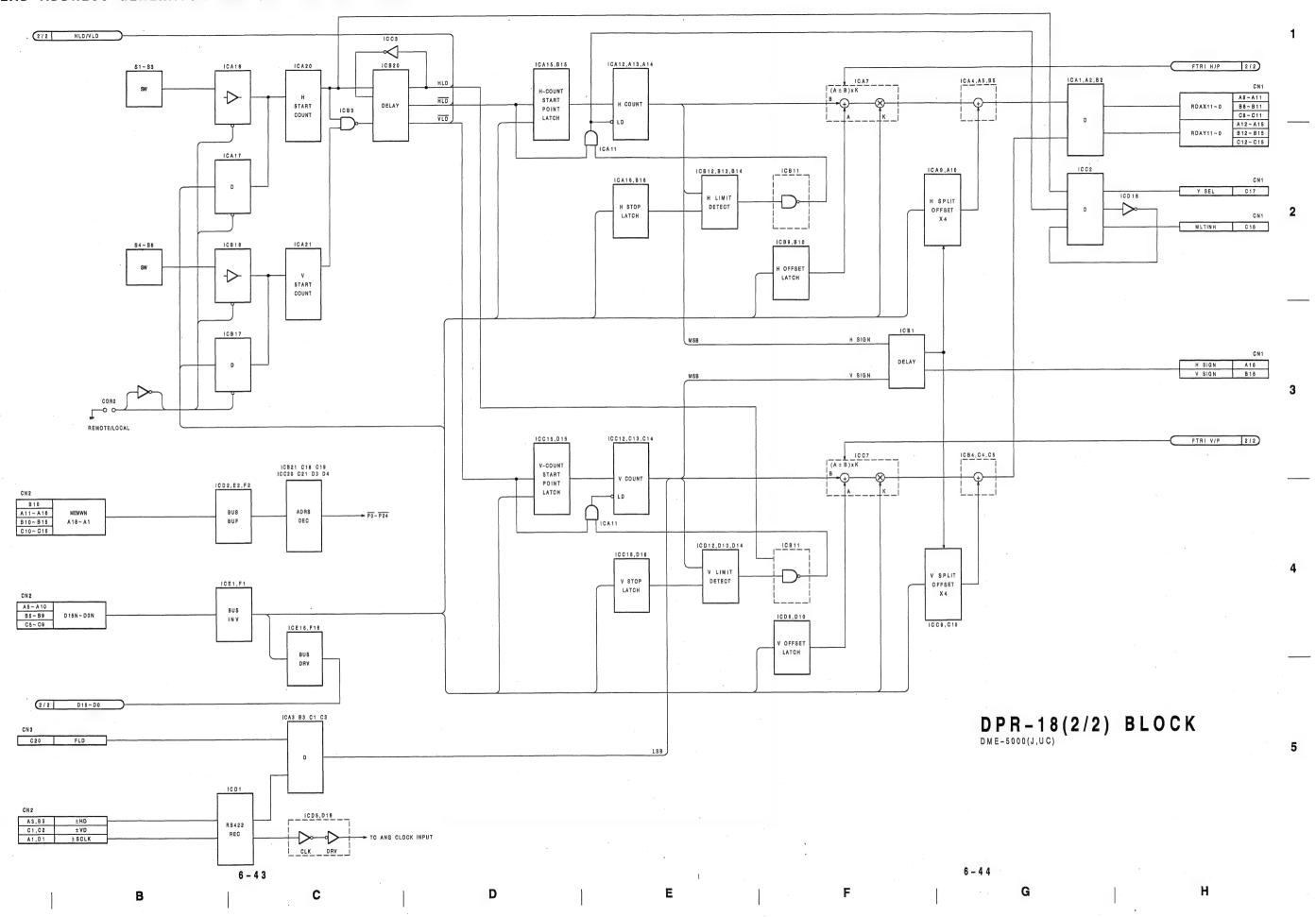
E

F

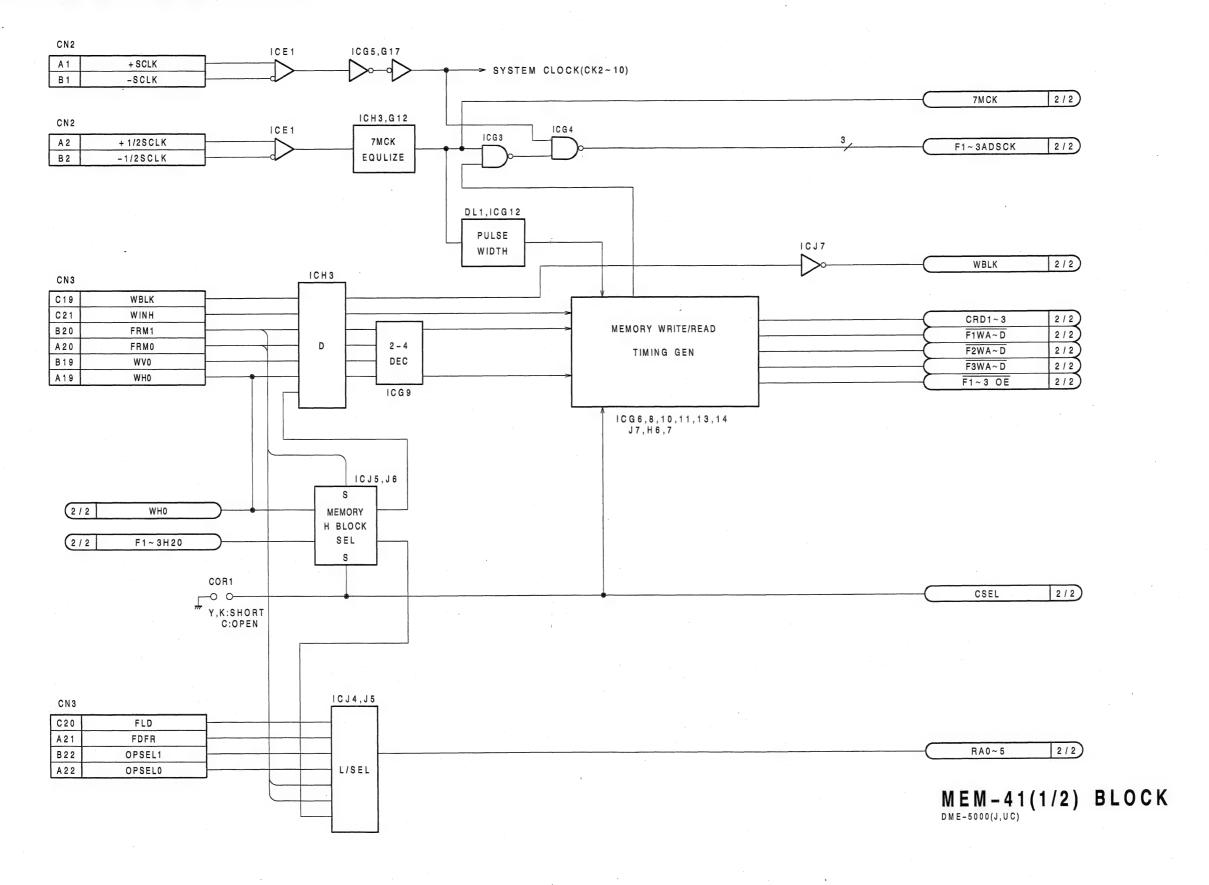
G

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READ ADDRESS GENERATOR AND SPLIT MIRROR GENERATOR



3 FIELD VIDEO MEMORY AND INTERPOLATOR



6 - 4 6

D

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6 - 4 5

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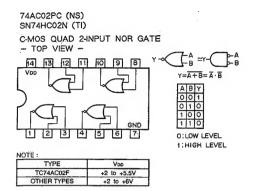
SECTION 7 SEMICONDUCTOR ELECTRODES

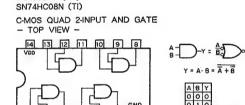
ここに記載されている IC, トランジスタ, ダイオードは, それぞれの機能を等価的に表したものです。したがって互換性を表すものではありません。(互換性のない型名が併記されている事もあります。)部品の交換をする時は, SPARE PARTS の章を参照して下さい。

ICs, transistors and diodes whoses functions are equivalent are described here. Therefore, incompatible device names may de described together. For parts replacement, refer to the Spare Parts section in this manual.

TYPE PAG	<u> TYPE</u>	PAGE	TYPE	PAGE	TYPE	PAGE
<ic></ic>	AT27HC642-55DC	7-8	SM5828P	7-25	SN74HC574N	7-29
	AT27HC642-55PC	7-8			SN74HC688N	
74AC02PC7-2			SN74ALSOOAN	7 - 3	SN74HC74N	
74AC08PC7-2	CX20160	7~10	SN74ALSO4BN		D	
74AC109PC7-2	CX23024	7-11	SN74ALSO8N		SN74HCT240N	7-29
74AC245PC7-2	CX23043		SN74ALS138N		SN74HCT244N	
74AC32PC7-2			SN74ALS153N		SN74HCT374N	
74AC373PC7-2	CXD8040G	7-12	SN74ALS157AN.		D	20
74AC74PC7-3	CXD8156Q		SN74ALS158N		SN74LS125AN	7-30
	CXD8157Q		SN74ALS161BN.		SN74LS164N	
74ACT244PC7-3	CXD8158Q		SN74ALS163BN.		SN74LS283N	
74ACT245PC7-2			SN74ALS175N		SN74LS640N	
74ACT373PC7-2	CXK1206M	7-16	SN74ALS240AN.		SN74LS682N	
	CXK54256P-45		SN74ALS244BN.		DM/4LSUOZM	
74F00PC7-3	CXK581000P-10L		SN74ALS273N		TC74ACT04P	7 20
74F02PC7-3	CXK5814P-35		SN74ALS27N		TC74HCTO4AP	
74F04PC7-3	CXK58257P-10LL		SN74ALS30AN.		1674nclU4Ar	1-20
74F08PC7-3	CXK58258SP-35		SN74ALS30AK		TD62083AP	7 00
74F10PC7-3	· ORROGEOOD! OU	17	SN74ALS374N		1002083AP	7-30
74F139PC7-4	CXQ70116P-8	7-18	SN74ALS541N		THEST LIDGE	7 00
74F148PC7-4	CXQ71011P		SN74ALS541N		TMC2111B2C	
74F153PC7-4	CXQ71059P		SN74ALS574AN.		TMS27C256-15JL	
74F157APC7-4	0.041.10331	/-13	SN74ALS574AN.		TMS27C512-20JL	7-31
74F158APC7-4	CY7C291L-35PC	7_20			DD 404040 0	
74F163APC7-5	01702311-3370	1-20	SN74ALS640AN.		uPD42101C-3	
74F164PC7-5	EPM5016-1	7 17	SN74ALS645AN.		uPD71051C-10	
74F175PC7-5	Crm3010-1		SN74ALS688N		uPD71054C-10	
74F20PC7-5	CALLCUOA LOLD	7 10	SN74ALS74AN		uPD72001C	7-33
74F240PC7-5	GAL16V8A-10LP	7-18	SN74ALS86N			
74F283PC7-6	IMCODOLD OO	7 00	SN74ALS874NT.	7-28	V74ACT821PS	
	HM63021P-28		2V2 4V2 2 2 V		V74ACT827PS	7-34
74F32PC7-6 74F350PC7-6	HN58C65P-25	7-21	SN74HCO2N			
	100050000	-	SN74HCO4N		WS27C010L-12D	
74F374PC7-6	L29C520PC		SN74HCO8N		WS57C291B-45S	
74F379PC7-6	LSP001AC-Q		SN74HC109N		WS57C291B-45T	7-34
74F382PC7-6	LT1171CT	7-21	SN74HC10N			
74F398PC7-7	W. W. A. A. A. T. T.		SN74HC132N			
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74F534PC7-7	MAX691CPE		SN74HC138N			
74F574PC7-7	MB7112L		SN74HC14N		188119	
74F64PC7-7	MB8421-90LP		SN74HC174N		S3S4M	
74F74PC7-8	MB8431-90LP		SN74HC240N		SLR-320VC3	7-35
74F86PC7-8	MBM28C64-25	7-24	SN74HC244N	7 - 3	TLG123A	7 - 35
			SN74HC245N			
180386DX-167-9	N74F85N	7-24	SN74HC273N	7-29		
80387DX-167-10			SN74HC32N	7 - 2	<transistor></transistor>	
M26LS30PC7-8	PEEL18CV8-25	7-24	SN74HC374N		2SA952	7-35
M26LS32ACN7-8	PEEL18CV8P-35	7-24	SN74HC4024N	7 – 2 0		

DME-5000



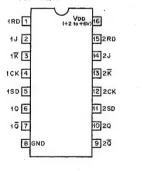


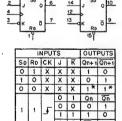
TC74AC08F +2 to +5.5V +2 to +6V

74AC109PC (NS) SN74HC109N (TI)

74AC08PC (NS)

C-MOS J-K FLIP-FLOP WITH DIRECT SET/RESET - TOP VIEW -



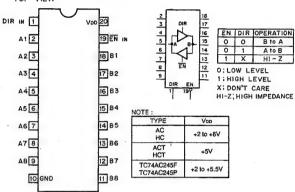


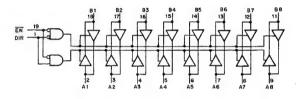
1 0 0 0; LOW LEVEL

O, LOW LEVEL 1, HIGH LEVEL X, DON'T CARE *, NONSTABLE

74AC245PC (NS) 74ACT245PC (NS) SN74HC245N (TI)

C-MOS BILATERAL BUS TRANSCEIVERS WITH 3-STATE OUTPUTS — TOP VIEW —

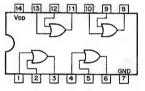




74AC32PC (NS) SN74HC32N (TI)

C-MOS 2-INPUT OR GATE - TOP VIEW -





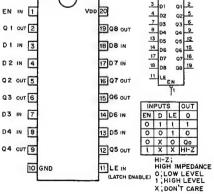
A - D - Y = A - D - Y	
$Y = A + B = \overline{A} \cdot \overline{B}$	
A B Y 0 0 0 0 1 1 1 0 1 1 1 1 1 1; HIGH LEVEL	

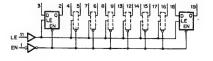
NOTE: TYPE VDD +2 to +5.5V

74AC373PC (NS) $(V_{00} = +2 \text{ to } +6V)$ 74ACT373PC (NS) $(V_{DD} = +5V)$

C-MOS 3-STATE OUTPUTS OCTAL LATCHES - TOP VIEW -



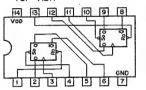




74AC74PC (NS) SN74HC74N (TI)

C-MOS D-TYPE FLIP FLOP WITH DIRECT SET/RESET - TOP VIEW -



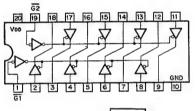


IN	PU	TS		OUTPUTS					
Šõ	Řο	СК	٥	Qn+1	Qn+1				
0	1	X	X	1	0				
1	0	X	X	0	1				
0	0	X	Х	1	1				
1	1	5	1	1	0				
1	1	1	0	0	1				
1	1	0	Х	Qn	Qn				
D:LOW LEVEL									
1:HIGH LEVEL									
x:	DΩ	N'T	٠,	CARE					

TYPE	Voo
74ACT	+5V
TC74AC74F	+2 to +5.5V
TC74ACT74F	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

74ACT244PC (NS) SN74HC244N (TI) SN74HCT244N (TI)

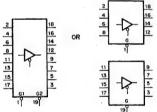
C-MOS BUS BUFFER WITH 3-STATE OUTPUTS





G	Α	Υ
0	0	0
0	1	1
1	ХĪ	HI-2

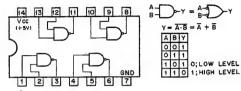
O:LOW LEVEL
1:HIGH LEVEL
X:DON'T CARE
HI-Z;HIGH IMPEDANCE



TYPE	Voo
AC HC 40H	+2 to +6V
ACT HCT	+5V

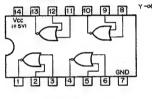
74F00PC (NS) SN74ALSOOAN (TI)

TTL 2-INPUT POSITIVE-NAND GATE - TOP VIEW -



74F02PC (NS)

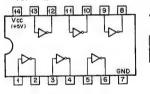
TTL 2-INPUT POSITIVE-NOR GATE - TOP VIEW -



74F04PC (NS) SN74ALS04BN (TI)

TTL INVERTER

- TOP VIEW -



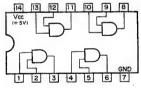
A-D-Y=A-D-Y $Y = \overline{A}$ AY 0 1 0:LOW LEVEL

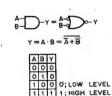
 $Y = \overline{A + B} = \overline{A} \cdot \overline{B}$

110 O:LOW LEVEL

74F08PC (NS) SN74ALS08N (TI)

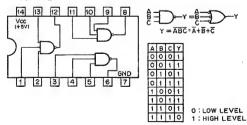
TTL 2-INPUT POSITIVE-AND GATE - TOP VIEW -





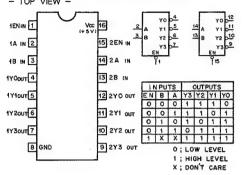
74F10PC (NS)

TTL 3-INPUT POSITIVE NAND GATE - TOP VIEW -



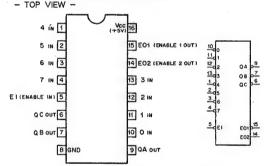
74F139PC (NS)

TTL 2-TO-4-LINE DECODER/DEMULTIPLEXER
- TOP VIEW -



74F148PC (NS)

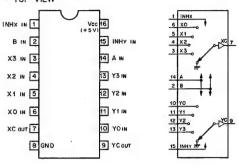
TTL 8-TO-3-LINE PRIORITY ENCODER - TOP VIEW -



	INPUTS									OL	JTPUT	'S	
EI	7	6	5	4	3	2	1	0	QC	QB	QA	E01	E02
1	Х	Х	Х	Х	X	X	Х	X	1	1	1	1	1
0	1	1	1	1	1	1	1	1	1	1	1	0	1
0	1	1	1	1	1	1	1	0	1	1	1	1	0
0	1	1	1	1	1	1	0	Х	1	1	0	1	0
0	1	1	1	1	1	0	X	X	1	0	1	1	0
0	1	1	1	1	0	Х	X	X	1	0	0	1	0
0	1	†	1	0	X	X	Х	X	. 0	1	1	1	0
0	1	1	0	X	X	Х	X	Х	0	.1	0	.1.	0
0	1	0	Х	Х	Х	X	Х	Х	0	0	1	1	0
0	0	X	Х	X	X	Х	Х	X	0	0	0	1	0
0.1	OW	LEVE	1	1: HIGH LEVEL				X:	DON'T	CAR	F		

74F153PC (NS) SN74ALS153N (TI)

TTL 4-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER - TOP VIEW -

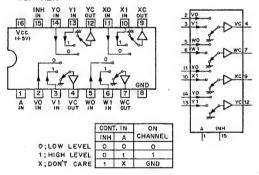


CON	TROL	ON						
INH	Ð	Α	CHANNEL					
0	0	0	0					
0	0	1	1					
0	1	0	2					
0	1	1	3					
1	X	X	GND					
O; LOW LEVEL 1; HIGH LEVEL								

X : DON'T CARE

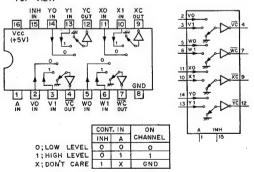
74F157APC (NS) SN74ALS157AN (TI)

TTL 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER - TOP VIEW -



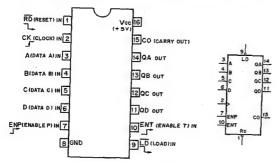
74F158APC (NS) SN74ALS158N (TI)

TTL 2-LINE-TO-1-LINE INVERTED DATA SELECTOR/MULTIPLEXER — TOP VIEW —



74F163APC (NS) SN74ALS163BN (TI)

TTL PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER - TOP VIEW -

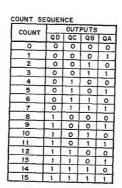


		INP		*****
RD	LD	ENP	ENT	MODE
0	x	×	х	RESET (SYNCHRONOUS)
1	0	×	х	PRESET (SYNCHRONOUS)
1	1	0	X	NO COUNT
1	1	X	0	NO COUNT
1	1	_1	1	COUNT

X; DON'T CARE

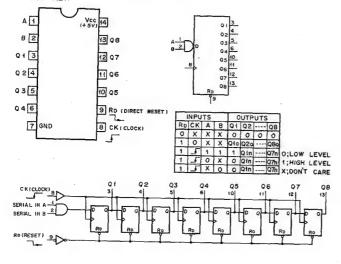
CARRY OUTPUT "CO"

CO IS HIGH WHEN ENT INPUT IS HIGH AND COUNT IS "15".



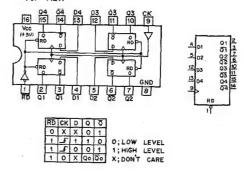
74F164PC (NS) SN74LS164N (TI)

TTL 8-BIT PARALLEL-OUT SERIAL SHIFT REGISTER - TOP VIEW -



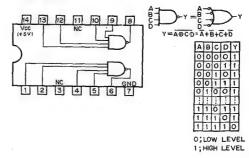
74F175PC (NS) SN74ALS175N (TI)

TTL D-TYPE FLIP-FLOP WITH CLEAR - TOP VIEW -



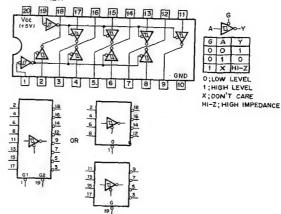
74F20PC (NS)

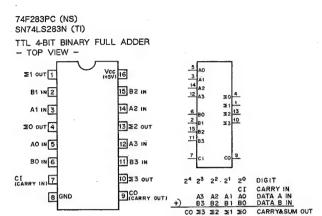
TTL 4INPUT POSITIVE NAND GATE - TOP VIEW -



74F240PC (NS) SN74ALS240AN (TI)

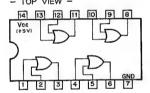
TTL 3-STATE SCHMITT TRIGGER INVERTER/LINE DRIVER - TOP VIEW -

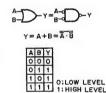






TTL 2-INPUT POSITIVE-OR GATE - TOP VIEW -

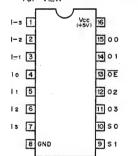


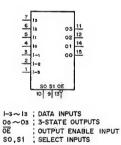


CI A

74F350PC (NS)

4-BIT SHIFTER WITH 3-STATE OUTPUTS - TOP VIEW -

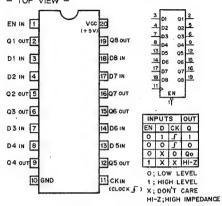


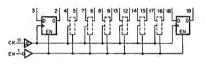


۱		inputs		1	Olit	puts		
Ī	ŌĒ	St	So	00	O1	Oz	03	
	1 0 0 0	X 0 0 1	X 0 1 0	HI-Z io I1 12 13	HI-Z 11 10 11 12	HI-Z 12 11 10	HI—Z is l2 l1	1; HIGH LEVEL 0; LOW LEVEL X; DON'T CARE
٤				1			1	HI-Z; HIGH IMPEDANC

74F374PC (NS) SN74ALS374N (TI)

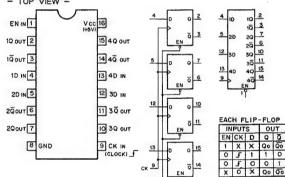
TTL 3-STATE OUTPUTS OCTAL D-TYPE FLIP-FLOP - TOP VIEW -



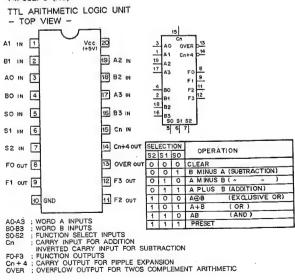


74F379PC (NS)

TTL QUAD D-TYPE FLIP-FLOP WITH ENABLE - TOP VIEW -

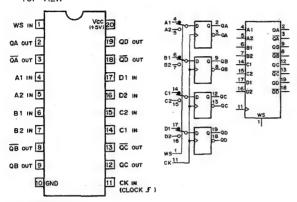


74F382PC (NS)



74F398PC (NS)

TTL QUAD 2-INPUT MULTIPLEXERS WITH STRAGE – TOP VIEW \sim



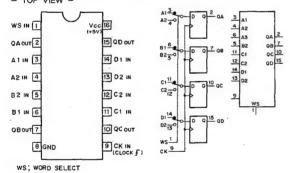
WS ; WORD SELECT

INP	JTS		OUT	PUTS	
WS	CK	QA	QB	QC	QD
0	J	A1	Bi	C1	D1
1	5	A2	B2	C2	D2
X	0	QA0	QB0	QC0	QDO

1; HIGH LEVEL 0; LOW LEVEL X: DON'T CARE

74F399PC (NS)

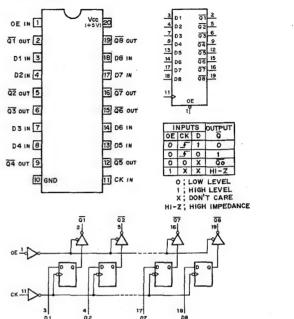
TTL QUAD 2-INPUT MULTIPLEXERS WITH STORAGE - TOP VIEW -



INPUTS			OUTF	UTS		
ws	ск	QA	QB	QC	QD	
0	5	A1	B1	C1	D1	1; HIGH LEVEL
1	5	A2	82	C2	D2	O; LOW LEVEL
X	0	QAO	QBO	QCO	QDO	X; DON T CARE

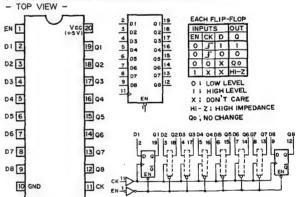
74F534PC (NS)

TTL D-TYPE EDGE-TRIGGERED FLIP-FLOPS WITH 3-STATE OUTPUTS — TOP VIEW —



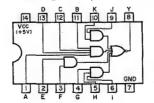
74F574PC (NS) SN74ALS574AN (TI)

TTL 3-STATE D-TYPE EDGE-TRIGGERED FLIP-FLOP



74F64PC (NS)

4-2-3-2 INPUT POSITIVE AND-OR-INVERT GATES - TOP VIEW -



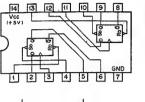
Y = ABCD+EF+GH1+JK =(A+B+C+D)(E+F)(G+H+1)(J+K)

Α	В	С	D	Ε	F	G	Н	1	5	K	Y
ī	1	1	١	x	X	X	X	X	X	X	0
X	x	X	X	1	1	X	×	X	X	X	0
X	X	X	X	X	X	1	1	1	X	X	0
X	X	X	X	X	X	X	X	X	1	1	0
ō	X	X	X	0	X	0	X	X	0	X	1
x	0	X	x	X	0	x	0	Х	X	0	1
X	x	0	X	0	X	X	X	0	0	×	1
X	x	x	0	0	X	0	×	X.	0	X	1

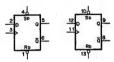
- O LOW LEVEL
- X: DON'T CARE

TTL D-TYPE FLIP FLOP WITH DIRECT SET/RESET - TOP VIEW -





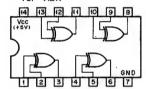
IN	PL			OUTF							
SO ROCK D Qn+1 Qn+1											
0	1		X	1	0						
1	0	X	X	0	1						
0	0	X	X	1*	1*						
1	1	5	1	1	0						
1	1	£	0	0	1						
1	1	0	X	Qn	Qn						
O; LOW LEVEL											



X: DON'T CARE 1* NONSTABLE

74F86PC (NS) SN74ALS86N (TI)

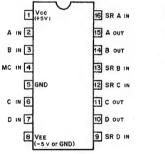
TTL EXCLUSIVE OR GATE TOP VIEW

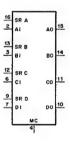




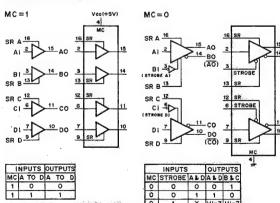
AM26LS30PC (ADVANCED MICRO DEVICES)

LINE DRIVER TOP VIEW





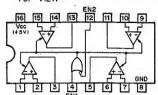
MC : MODE CONTROL SR : SLEW RATE CONTROL



X;DON'T CARE L

AM26LS32ACN (TI)

HIGH SPEED DIFFERENTIAL LINE RECEIVER

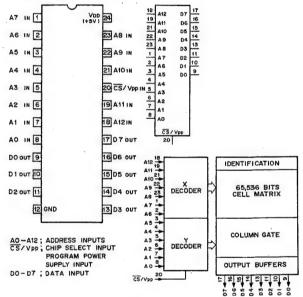


!	FUNCTION TABLE											
ı	EN2 EN! OUTPUT											
ı	O O ENABLE											
Į	O 1 ENABLE											
I	1 0 HI-Z											
١	1 1 ENABLE											
	O; LOW LEVEL											
٠	1; HIGH LEVEL											
ŧ	11 – Z	; HIGH	1 IMPEDANC	Œ								

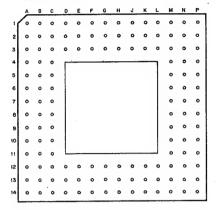
_	SENSE	INPUT VOLT
LS32	±200mV	± 7V
LS33	±500mV	±15V

AT27HC642-55DC (ATMEL) AT27HC642-55PC (ATMEL)

C-MOS 64K(8192x8)-BIT UV EPROM - TOP VIEW -



A80386DX-16 (INTEL) C-MOS 32-BIT MICROPROCESSOR - BOTTOM VIEW -



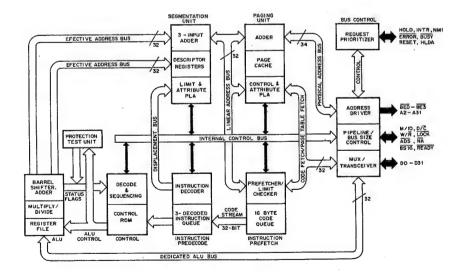
: BUS SIZE 16 (H: 32-BIT, L: 16-BIT DATA BUS)
: COPROCESSOR BUSY
: CLOCK
: COPROCESSOR ERROR
: BUS HOLD REQUEST
: MASKABLE INTERRUPT REQUEST
: NOT ADDRESS REQUEST
: NON-MASKABLE INTERRUPT REQUEST
: PROCESSOR EXTENSION REQUEST
: TRANSFER ACKNOWLEDGE
: RESET INPUT BS16 BUSY CLK2 ERROR HOLD INTR NA NMI PEREQ READY RESET

OUTPUT
A2 - A31 : ADDRESS BUS
BEO - BE3 : BYTE ENABLES
D/C : DATA-CONTROL INDICATION
HLDA : BUS HOLD ACKNOWLEDGE
LOCK : BUS LOCK INDICATION
W/R : WRITE-READ INDICATION

INPUT/OUTPUT DO - D31 ; DATA BUS

140.			110.		\$						
A1	-	Voo	C6		NC	H1	0	A17	M10	-	GND
A2	-	GND	C7	-	NC	H2	0	A18	M11	1/0	D15
A3	0	A3	C8	1	PEREQ	нз	0	A19	M12	1/0	D10
A4	-	NC	C9	1	RESET	H12	1/0	DO	M13	-	VDD
A5	-	Von	C10	0	LOCK	H13	1/0	D1	M14	0	HLDA
A6	-	GND	C11	-	GND	H14	1/0	D2	N1	0	A27
A7	-	Vpp	C12	-	Voo	J1	0	A20	N2	0	A31
A8	1,	ERROR	C13	0	BE1	J2	-	GND	N3	-	GND
A9	-	GND	C14	1	BS16	J3		GND	N4	-	Voo
A10	-	VDD	D1	0	A11	J12	-	GND	N5	1/0	D27
A11	0	D/C	D2	0	A10	J13	-	GND	N6	1/0	D25
A12	0	M/IO	D3	0	A9	J14	1/0	D3	N7	-	VDD
A13	0	BE3	D12	-	VDD	K1	0	A21	N8	1/0	D23
A14	-	Vpp	D13	0	NA	K2	0	A22	N9	1/0	D21
B1	-	GND	D14	1	HOLD	КЗ	0	A25	N10	1/0	D17
B2	0	A5	E1	0	A14	K12	1/0	D7	N11	1/0	D16
B3	0	A4	E2	0	A13	K13	1/0	D5	N12	1/0	D12
B4	-	NC	E3	0	A12	K14	1/0	D4	N13	1/0	D11
B5	_	GND	E12	0	BEO	L1	0	A23	N14	1/0	D9
B6	-	NC	E13	-	NC	L2	0	A24	P1	0	A30
B7	1	INTR	E14	0	ADS	L3	0	A28	P2	-	VDD
B8	1	NMI	F1	0	A15	L12	-	Voo	P3	1/0	D30
89	1	BUSY	F2	-	GND	L13	1/0	D8	P4	1/0	D29
B10	0	W/R	F3	-	GND	L14	1/0	D6	P5	1/0	D26
B11	-	GND	F12	1	CLK2	M1	0	A26	P6		GND
B12	***	NC	F13	-	NC	M2	0	A29	P7	1/0	D24
B13	0	BE2	F14	-	GND	МЗ	-	Vpp	P8		Vpp
B14	-	GND	G1	0	A16	M4	=	GND	P9	1/0	D22
C1	0	A8	G2	-	V _{DD}	M5	1/0	D31	P10	1/0	D19
C2	0	A7	G3	-	VDD	M6	1/0	D28	P11	1/0	D18
СЗ	0	A6	G12	-	' Voo	M7	-	VDD	P12	1/0	D14
C4	0	A2	G13	1	READY	M8		GND	P13	1/0	D13 ·
C5	_	Vpp	G14	-	Voo	М9	1/0	D20	P14	-	GND

PIN I/O SYMBOL PIN I/O SYMBOL PIN NO. I/O SYMBOL PIN NO. I/O SYMBOL PIN NO.



NUMERICS COPROCESSOR - BOTTOM VIEW -

	A	В	С	D	E	F	G	н	J	K	١.	
1	/	0	0	0	0	0	0	0	0	0		Ì
2	٥	0	0	0	0	0	0	0	0	0	٥	l
3	٥	0								0	٥	ı
4	٥	0								0	٥	l
5	٥	0								0	٥	
6	٥	0								0	٥	l
7	0	٥								0	۰	
8	0	0								0	۰	
9	٥	0								0	٥	ĺ
10	0	0	0	0	0	0	0	0	0	0	٥	
11		0	0	0	0	ó	0	0	0	0	- 1	

											ADD = + 2A
PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
18	1/0	D8	2H	1/0	D0	6K	T	NPS2	10C	1/0	D23
1C	1/0	D7	2L	0	ERROR	6L	1	· NPS1	10D	1/0	D24
10	1/0	D5	ЗА	1/0	D11	7A	1/0	D16	10E	1/0	D26
1E	-	VDD	3B	1/0	D10	7B	- 1	GND	10F	-	VDD
1F	_	VDD	3K	-	VDD	7K	-1	ADS	10G	1/0	D28
1G	1/0	D3	3L	O	READY O	7L	-	VDD	10H	1/0	D30
1H	1/0	Di	4A	1/0	D12	8A	1/0	D18	10L	T	RESET IN
1J	-	GND	4B	-	VDD	8B	1/0	D17	11B	1/0	D22
1K	0	PEREQ	4K	- 1	W/R	8K	1	READY	11C	-	GND.
2A	1/0	D9	4L		STEN	8L	1	CMD0	11D	1/0	D25
28		GND	5A	1/0	D14	9A	-	VDD	11E	1/0	D27
2C	1/0	D6	5B	1/0	D13	9B	1/0	D19	11F	_	GND
2D	1/0	D4	5K	-	VDD	9K	-	NC	116	1/0	D29
2E	-	GND	5L	-	GND	9L	-	VDD	11H	1/0	D31
2F	-	GND	6A	-	VDD	10A	1/0	D21	11J	T	CKM
2G	1/0	D2	68	1/0	D15	10B	1/0	D20	11K	1	NUMCLK2

CX20160 (SONY)

TTL OCTAL 3 OR 4 STAGE SHIFT REGISTER

- TOP VIEW
3/4 IN 1

VCC
(+55) 20

3 D 1 0 1 2

4 D 2 0 2 5

7 D 8 0 3 6

13 D 5 0 5 12

14 D 6 0 6 15

D 2 IN 4

Q 20 IT 5

15 06 OUT

12 Q5 OUT

Q4out 9

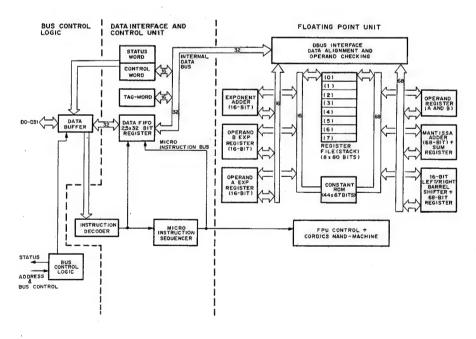
10 GND

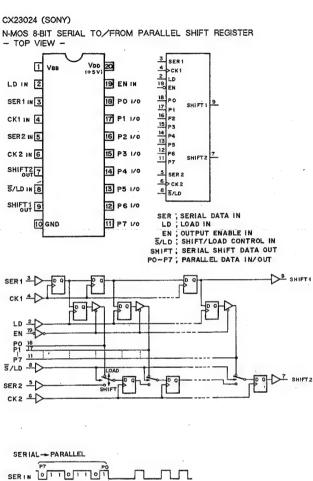
IN 7

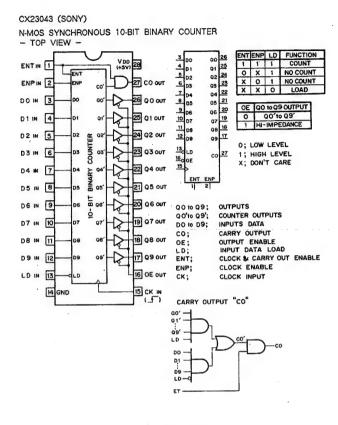
14 D6 IN

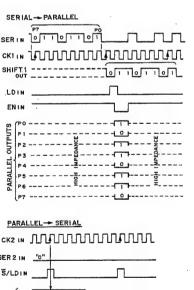
3/4; TOTAL STAGE SELECTION SIGNAL INPUT

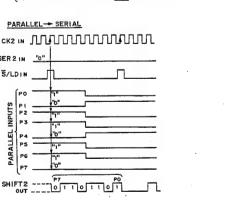
H: 4 STAGES, L: 3 STAGES

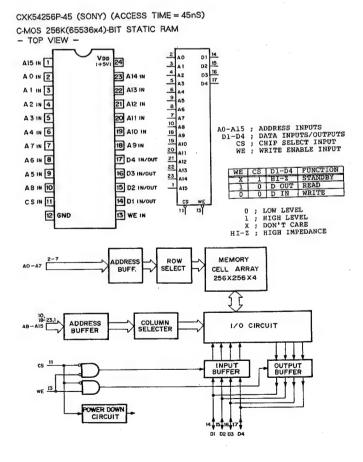












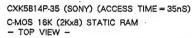
4-POINT INTERPOLATOR - BOTTOM VIEW -

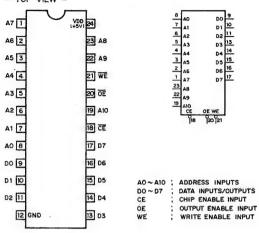
		** **	-	_		_			_			
O 25	O 27	29	31	33	O 36	39	0	O 43	0 45	0 47	0	0
23	26	28	30	32	35	0 37	41	44	0 46	49	51	0 52
55	0 24				34	0 38	42				0 53	54
20	21										55	56
18	19										O 57	58
15	16	17								59	60	91
14	12	13								မို	62	64
0	00	9								O 67	66	O 65
8	7										0 69	O 66
6	5		/E)	CTRA							71	70
0	3	ď			92	88	0 84				0 74	0 72
0	0	99	0 96	94	91	87	0 85	82	80	78	0 76	8
180	98	97	95	93	90	89	86	83	81	0 79	0 77	0 75

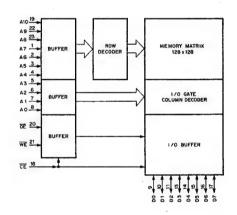
INPUT A - A11 B0 - B11 C0 - C11 D0 - D11 CK	: DATA INPUT A : DATA INPUT B : DATA INPUT C : DATA INPUT D : CLOCK INPUT	
TCX	TEST MODE X	
	(L: TEST MODE)	
TCYN	; TEST MODE Y	
	(L: TEST MODE)	
X0 - X7	: INTERPOLATION	
	COEFFICIENT INPUT	X
Y0 - Y7	; INTERPOLATION	
	COEFFICIENT INPUT	Y

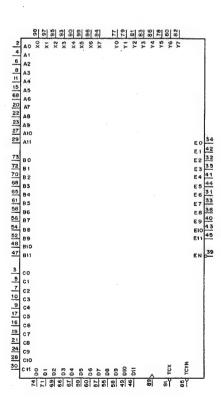
OUTPUT EO - E11 EN	: DATA OUTPUTS : OUTPUT ENABLE
	(L:ENABLE)

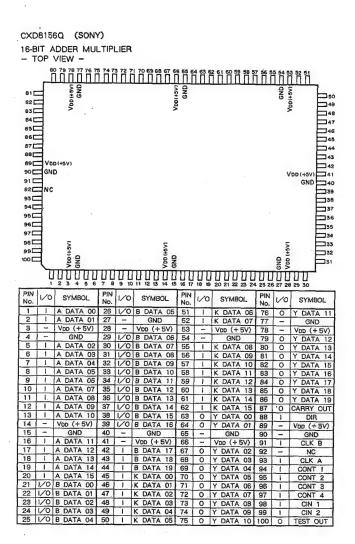
									(VL	リレーヤ	3V 10 +6V
PIN No.	1/0	SIGNAL	PIŅ No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN. No.	1/0	SIGNAL
- 1		GND.	26	-	GND .	51	=	VDD	76	-	VDD
2	1	AO	27	1	A10	52	1.	. B9	77		YO
3	1	CO	28		C10	53	1	D9	78	T	Y5
4	1	A1	29	1	A11	54	. 1	. B8	79		· Y1
5	1	C1	30	-	C11	55	1	D8	80		Y6
6	1	A2	31	0	E6	56	71	87	81		Y2
7	1	C2	32	0	E2	57	1	D7	82		Y7
8	1	A3	33	0	E7 ·	58	1	B6	83		Y3
9	1	C4	34	0	EO	59	1	D5	84	-	TS OUT
10	1	C3	35	0	E3 ·	60		D6	85	Τ	TCYN
11	1	A4	36	0	E8	61	.1.	B5	86	1	Y4
12	-	VDD	37	-	GND	62		GND	87	-	VDD
13	-	GND	38	-	VDD	63	-	GND	88	-	GND
14	1	GND	39	0	EN	64	-	VDD	89	I	CK
15	1	A5	40	0	E9	65	I	B4	90	1	,X4
16	1	C6	41	0	E4	66	1	D3	91	1	TCX
17	1	C5	42	0	E1	67	1	D4	92	-	GND
18	1	A6	43	0	E10	68	1	B3	93	1	ХЗ
19	1	C7	44	0	E5	69	1	D2	94	1	X7
20	1	A7	45	0	E11	70	1	B2	95	T	X2
21	1	C8	46	1	D11	71	ı	D1	96	1	X6
22	1	A8	47	- 1	B11	72	I	B1	97	. 1	X1
23	1	A9	48	1	B10	73	1	B0	98	1	XO
24	-1	C9	49	1	D10	74	1	D0	99	1	X5
25	-	VDD	50	-	GND	75	-	GND	100	-	VDD

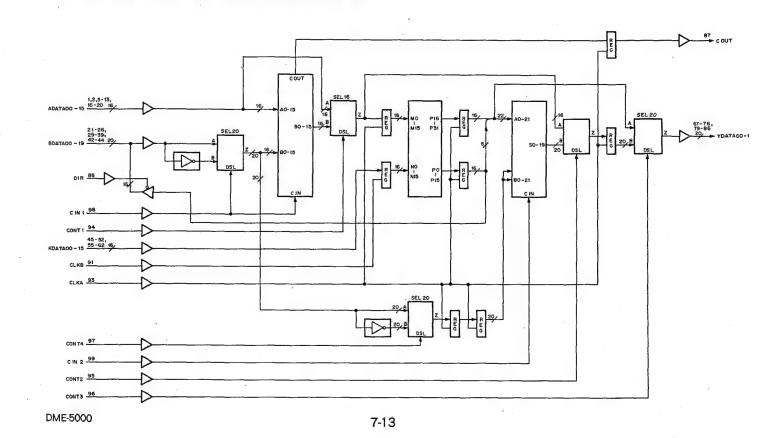




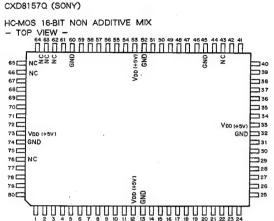




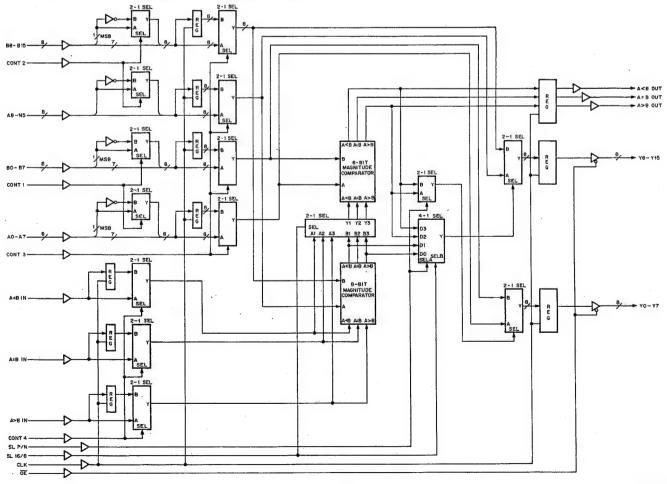




CXD8157Q (SONY)

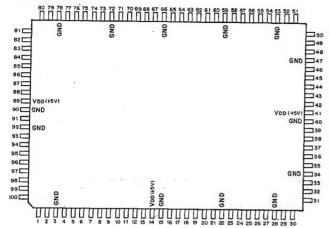


PIN	Γ		PIN	1		PIN	1		PIN		
No.	1/0	SYMBOL	No.	1/0	SYMBOL	No.	1/0	SYMBOL	No.	1/0	SYMBOL
1		CONT 03	21	1	A DATA 15	41	0	Y DATA 14	61		OE
2	1	CONT 02	22	1	B DATA 00	42	0	Y DATA 13	62	-	NC
3	1	CONT 01	23	1	B DATA 01	43	-	NC	63	-	NC
4	- 1	A DATA 00	24	1	B DATA 02	44	0	Y DATA 12	64	-	NC
5	1	A DATA 01	25	1	B DATA 03	45	-	GND	65	-	NC
6		A DATA 02	26	1	B DATA 04	46	0	Y DATA 11	66	-	NC
7	1	A DATA 03	27	1	B DATA 05	47	0	Y DATA 10	67	1	SL168
8	1	A DATA 04	28	1	B DATA 06	48	0	Y DATA 09	68	1	SLPN
9	1	A DATA 05	29	1	B DATA 07	49	0	Y DATA 08	69	0	AEBOUT
10	1	A DATA 06	30	1	B DATA 08	50	0	Y DATA 07	70	0	ALBOUT
11	1	A DATA 07	31	1	B DATA 09	51	0	Y DATA 06	71	0	AGBOUT
12	-	VDD (+5V)	32	-	GND	52	-	GND	72	0	TESTOUT
13	-	GND	33	-	VDD (+5V)	53	-	VDD (+5V)	73		VDD (+5V)
14	1	A DATA 08	34	. T .	B DATA 10	54	0	Y DATA 05	74	-	GND
15	1	A DATA 09	35	1	B DATA 11	55	0	Y DATA 04	75	1	CLK
16	1	A DATA 10	36	1	B DATA 12	56	0	Y DATA 03	76	-	NC
17	1	A DATA 11	37	1	B DATA 13	57	0	Y DATA 02	77	. 1	AEBIN
18	ı	A DATA 12	38	1	B DATA 14	58	0	Y DATA 01	78	1	ALBIN
19	1.	A DATA 13	39	1	B DATA 15	59	0	Y DATA 00	79	1	AGBIN
20	1	A DATA 14	40	0	Y DATA 15	60	-	GND	80	1	CONT 04

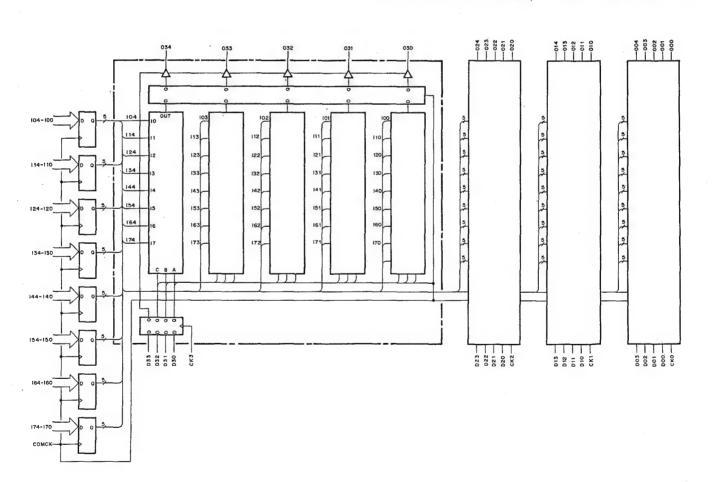


CXD8158Q (SONY)

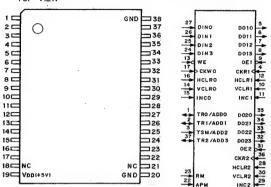
HC-MOS 5-BIT SLICE 8x4 MATRIX SWITCH - TOP VIEW -

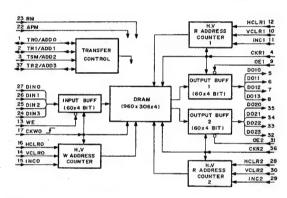


PIN No.	1/0	SYMBOL	PIN No.	1/0	SYMBOL	PIN No.	1/0	SYMBOL	PIN No.	1/0	SYMBOL
1	0	003	26	1	113	51	1	133	76	0	013
2	0	004	27	1	114	52	1	134	77	0	014
3	-	GND	28	-	GND	53	-	GND	78	-	GND
4	1	СКЗ	29	1	120	54	. 1	140	79	-	160
5	1	D30	30	1	121	55	1	141	80	1	161
6	Ι.	D31	31	1	122	56	1	142	81	1	162
7	1	D32	32	T	123	57	1	143	82	1	163
8	1	D33	33	T	124	58	Ī	144	83		164
9	0	030	34	-	GND	59	-	GND	84	- 1	170
10	0	031	35	1	CK2	60	1	150	85	1	171
11	0	032	36	_	D20	61	. 1	151	86	1	172
12	0	033	37		D21	62	1	152	87	1	173
13	0	034	38	1	D22	63	1	153	88	1	174
14	-	VDD (+5V)	39	-	D23	64	1	154	89	-	VDD (+5V)
15	-	GND	40	-	GND	65	Ĭ.	CK1	90	-	GND
16	1	100	41	-	VDD (+5V)	66	-	GND	91	- 1	COMCLK
-17	. 1	IO1	42	0	020	67		VDD (+5V)	92		GND
18	1	102	43	0	021	68	1	D10	93	1	CK0
19	1	103	44	0	022	69	1	D11	94	1	D00
20	<u> </u>	104	45	0	023	70		D12	95	_	D01
21	0	TSOUT	46	0	024	71	1	D13	96	- 1	D02
22	-	GND	47	-	GND	72		Vss	97		D03
23	1 1	110	48		130	73	0	010	98	0	000
24	- 1	111	49	1	131	74	0	011	99	0	001
25	1	112	50	1	132	75	0	012	100	0	002



C-MOS VIDEO FIELD MEMORY (960-COLUMNx306-ROWx4-BIT) - TOP VIEW -





PIN		DESCRIPTION

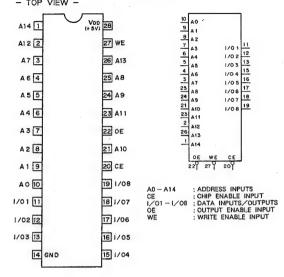
1	TRO/ADDO	W PORT 0 TRANSFER SYNC I/O, ADDRESS 0 INPUT
2	TRI/ADDI	R PORT 1 TRANSFER SYNC I/O, ADDRESS 1 INPUT
3	TSM/ADD2	TRANSFER SYNCHRONOUS MODE, ADDRESS 2 INPUT
4	CKRI	R PORT 1 TRANSFER SYNC I/O, ADDRESS 1 IMPUT TRANSFER SYNCHRONOUS MODE, R PORT 1 SHIFT SIGNAL INPUT R PORT 1 DATA 0 OUTPUT R PORT 1 DATA 0 OUTPUT R PORT 1 DATA 2 OUTPUT R PORT 1 DATA 2 OUTPUT R PORT 1 DATA 3 OUTPUT R PORT 1 DATA 3 OUTPUT R PORT 1 OUTPUT ENABLE INPUT R PORT 1 VERTICAL CLEAR INPUT R PORT 1 LINE INCREMENT INPUT R PORT 1 HORIZONTAL CLEAR INPUT W PORT 0 WRITE ENABLE INPUT W PORT 0 WRITE THABLE INPUT W PORT 0 VERTICAL CLEAR INPUT W PORT 0 THE SIGNAL INPUT W PORT 0 SHIFT SIGNAL INPUT (no connection) 45V INPUT GMD
5	0010	R PORT 1 DATA 0 OUTPUT
9	DOTI	R PORT 1 DATA 1 OUTPUT
/	DO12	R PORT 1 DATA 2 OUTPUT
8	DO13	R PORT 1 DATA 3 OUTPUT
. 9	OE1	R PORT 1 OUTPUT ENABLE INPUT
10	VCLKI	R PORT I VERTICAL CLEAR INPUT
11	INCI	R PORT 1 LINE INCREMENT INPUT
12	HCLRI	R PORT I HORIZONTAL CLEAR INPUT
13	MR	W PORT O WRITE ENABLE INPUT
14.	VCLRO	W PORT 0 VERTICAL CLEAR INPUT
12	INCO	W PORT 0 LINE INCREMENT INPUT
10	HCLRO	W PORT 0 HORIZONTAL CLEAR INPUT
17	CKW0	W PORT 0 SHIFT SIGNAL INPUT
18	NC	(no connection)
19	VDD	+5V INPUT
20	GND	GND (no connection) ADDRESS PRESET MODE INPUT RECURSIVE MODE ENABLE INPUT W PORT 0 DATA 3 INPUT W PORT 0 DATA 2 INPUT W PORT 0 DATA 1 INPUT
21	NC	(no connection)
22	APM	ADDRESS PRESET MODE INPUT
23	RMM	RECURSIVE MODE ENABLE INPUT
24	DIN3	W PORT 0 DATA 3 INPUT
25	DIN2	W PORT 0 DATA 2 INPUT
26	DINI	W PORT 0 DATA 1 INPUT
27	DING	W PORT 0 DATA 0 INPUT
28	HCLR2	R PORT 2 HORIZONTAL CLEAR INPUT
29	INC2	R PORT 2 LINE INCREMENT INPUT
30	VCLR2	R PORT 2 VERTICAL CLEAR INPUT
31	OE2	R PORT 2 OUTPUT ENABLE INPUT
32	0023	W PORT 0 DATA 1 INPUT W PORT 0 DATA 0 INPUT R PORT 2 HORIZONTAL CLEAR INPUT R PORT 2 LINE INCREMENT INPUT R PORT 2 VERTICAL CLEAR INPUT R PORT 2 OUTPUT ENABLE INPUT R PORT 2 DATA 3 OUTPUT R PORT 2 DATA 3 OUTPUT R PORT 2 DATA 3 OUTPUT
	D022	R PORT 2 DATA 2 OUTPUT R PORT 2 DATA 1 OUTPUT
34	D021	R PORT 2 DATA 1 OUTPUT
35	D020	R PORT 2 DATA 0 OUTPUT
36	CKRZ	R PORT 2 SHIFT SIGNAL INPUT
37	TRZ/ADD3	R PORT 2 TRANSFER SYNC I/O, ADDRESS 3 INPUT
38	GND	GND

M	ODE S	ELECT	ION			<u> </u>
	CONT		TS	TR/A	DΩ	MODE
į	RM	APM	TSM	TR 0-2	ADD 0-3	RODE
	0	0	0	OUT PUT	-	NON RECURSIVE MODE, TRANSFER SYNCHRONOUS MODE OUTPUT
	0	0	1	IN- PUT	-	NON RECURSIVE MODE, TRANSFER SYNCHRONOUS MODE INPUT
	0	1	-	-	IN- PUT	NON RECURSIVE MODE, ADDRESS PRESET MODE
-	1	0	0	OUT PUT	-	RECURSIVE MODE, TRANSFER SYNCHRONOUS MODE OUTPUT
	1	0	1	IN- PUT	-	RECURSIVE MODE, TRANSFER SYNCHRONOUS MODE INPUT

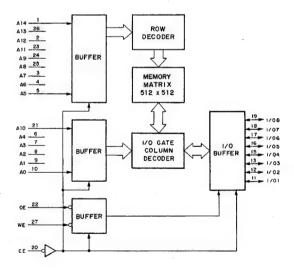
0:LOW LEVEL 1:HIGH LEVEL

CXK58257P-10LL (SONY) (ACCESS TIME = 100nS)

C-MOS 256K(32768x8)-BIT STATIC RAM
- TOP VIEW -

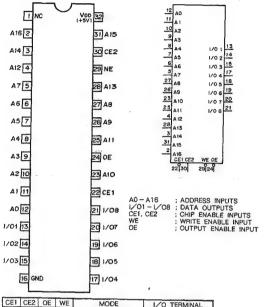


CE	OE	WE	MODE	I/O TERMINAL	
1	×	×	NOT SELECT	HIGH IMPEDANCE	
0	1	1	OUTPUT DISABLE	HIGH IMPEDANCE	
0	0	1	READ	OUTPUT DATA	0 : LOW LEVEL 1 : HIGH LEVEL
0	×	0	WRITE	INPUT DATA	X: DON'T CARE



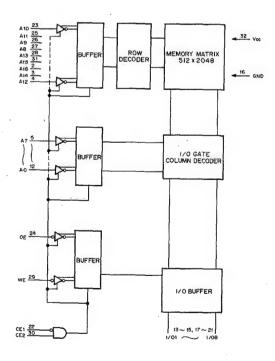
CXK581000P-10L (SONY)

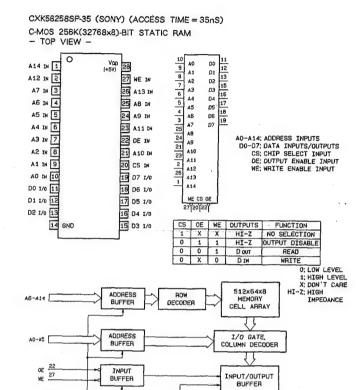
C-MOS 131072-WORDX8-BIT HIGH SPEED STATIC RAM - TOP VIEW -



CE1	CE2	OE	WE	MODE	I/O TERMINAL
1	X	X	Х	NOT SELECT	HIGH IMPEDANCE
Х	0	Х	Х	NOT SELECT	HIGH IMPEDANCE
0	1	1	1	OUTPUT DISABLE	HIGH IMPEDANCE
0	1	0	_1	READ	DATA OUTPUT
0	1	Х	0	WRITE	DATA INPUT

0 ; LOW LEVEL 1 ; HIGH LEVEL X : DON'T CARE



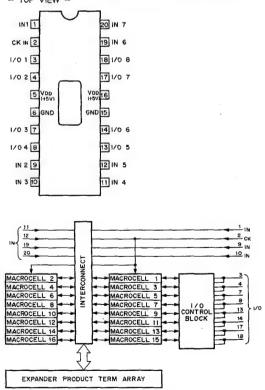


DO-D7

EPM5016-1 (ALTERA)

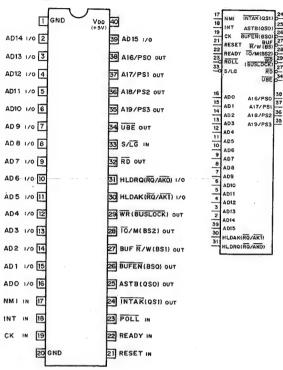
cs <u>20</u>

C-MOS UV ERASABLE PROGRAMMABLE LOGIC DEVICE - TOP VIEW -



* ABOVE DIAGRAM SHOWS CONDITIONS BEFORE PROGRAMING.

C-MOS 16-BIT MICROPROCESSOR - TOP VIEW -



AD15-AD0 ; ADDRESS/DATA BUS

NNI ; NON-MASKABLE INTERRUPT

INT ; MASKABLE INTERRUPT

CK ; CLOCK

TINTAK ; INTERRUPT ACKNOWLEDGE

ASTD ; ADDRESS STROBE

BUFFEN ; BUFFER READ/WRITE

BUF */W ; BUFFER READ/WRITE

IO/M ; IO MEMORY

WR ; WRITE STROBE

HLDAK ; HOLD ACKNOWLEDGE

HLDAK ; HOLD ACKNOWLEDGE

HLDRQ ; HOLD REQUEST

RD ; READ STROBE

S/LG ; SMALL/LARGE

UBE ; UPPER BYTE ENABLE

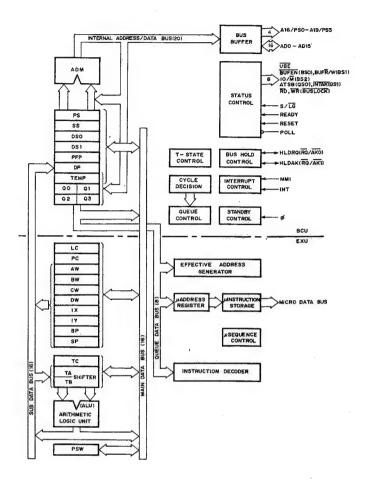
A19/PS3-A16/PS0 ; ADDRESS BUS/PROCESSOR STATUS

BSZ-BSO ; BUS STATUS

BUSLOCK ; BUS STATUS

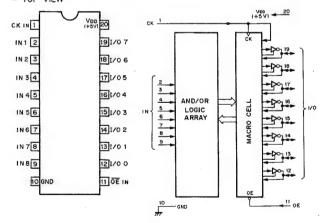
BUSLOCK ; BUS LOCK

PIN	FUNCT	ION
No.	S/LG=HIGH LEVEL	S/LG=LOW LEVEL
24	INTAK	QS1
25	ASTB	oso
26	BUFEN	BSO
27	BUF R/W	BS1
28	IO/M	BS2
29	WR	BUSLOCK
30	HLDAK	RQ/AK1
31	HLDRO	RQ/AKO



GAL16V8A-10LP (LATTICE)

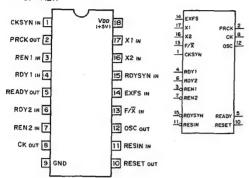
C-MOS ELECTRICALLY ERASABLE PROGRAMMABLE LOGIC DEVICE - TOP VIEW -



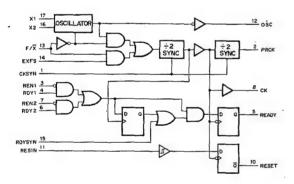
* ABOVE DIAGRAM SHOWS CONDITIONS BEFORE PROGRAMMING.

CXQ71011P (SONY)

C-MOS CLOCK PULSE GENERATOR/DRIVER - TOP VIEW -

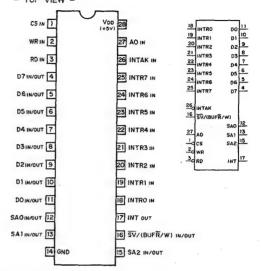


X1,X2; CRYSTAL INPUT EXFS; EXTERNAL FREQUENCY SOURCE INPUT F/X; FREQUENCY/CRYSTAL SELECT INPUT CK; PROCESSOR CLOCK OUTPUT PRCK; PERIPHERAL CLOCK OUTPUT OSC; OSCILLATOR OUTPUT OSC; OSCILLATOR OUTPUT
CKSYN; CLOCK SYNCHRONIZATION INPUT
RESIN; RESET INPUT
RDY1, RDY2; BUS READY INPUT
RENI, RENZ; READY ENABLE INPUT
RDYSYN; READY SYNCHRONIZATION SELECT INPUT



CXQ71059P (SONY)

C-MOS INTERRUPT CONTROL UNIT - TOP VIEW -



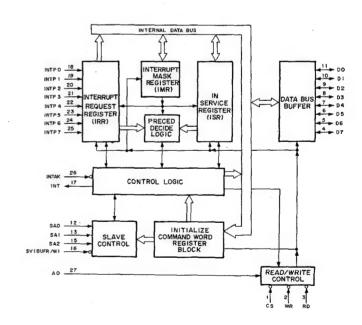
INTRO-INTR7; INTERRUPT REQUEST INPUTS
D0-D7; DATA BUS INPUTS/OUTPUTS
CS; CHIP SELECT INPUT
RD; READ STROBE INPUT
WR; WRITE STROBE INPUT
AO; ADDRESS INPUT

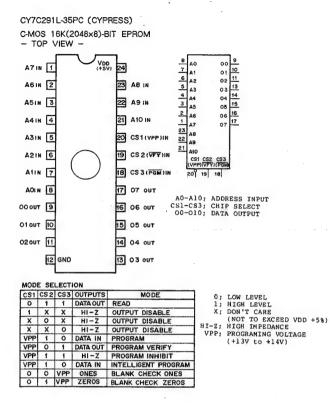
INT : INTERRUPT OUTPUT

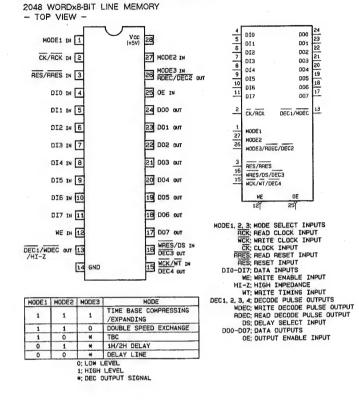
INTAK : INTERRUPT ACKNOWLEDGE INPUT

\$\overline{\text{SV}}(8UF\overline{R}/W) ; \$LAVE/BUFFER \overline{READ}/WRITE INPUT/OUTPUT

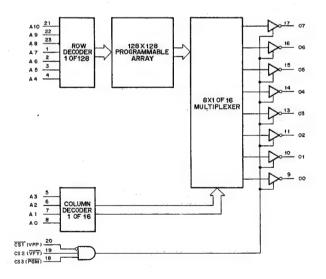
\$AO-\$A2 ; \$LAVE ADDRES\$ INPUTS/OUTPUTS

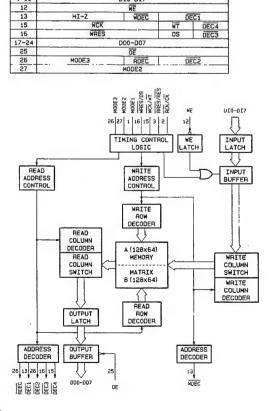






HM63021P-28 (HITACHI) (ACCESS TIME = 28nS)





MODE

DIO-DI7

TBC

DELAY

DOUBLE

SPEED EXCHANGE

TIME BASE

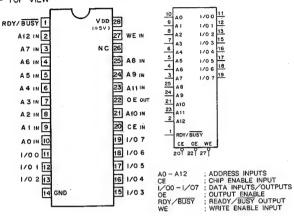
MPRESSIN

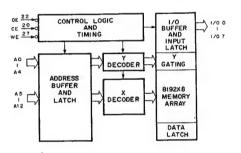
EXPANDING

3 4-11

HN58C65P-25 (HITACHI)

C-MOS 64K (8192x8)-BIT EEPROM - TOP VIEW -

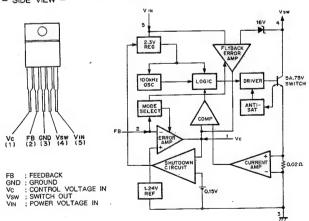




CE	OE	WE	RDY/BUSY	I/O TERMINAL	FUNCTION
0	0	1	HI-Z	DOUT	READ
1	X	X	HI-Z	HI-Z	STANDBY
0	1	0	HI-Z → LOW	DIN	WRITE
0	1	1	HI-Z	HI-Z	DESELECT
×	X	1	HI-Z		WRITE INH
X	0	X	H-Z	-	WRITE INH
0	0	1	LOW	DATA OUT (I/O7)	DATA POLLING

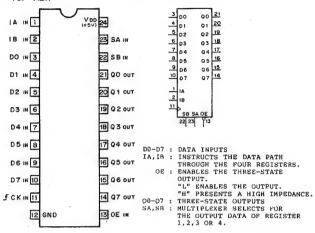
0: LOW LEVEL 1: HIGH LEVEL X: DON'T CARE HI-Z: HIGH IMPEDANCE

LT1171CT (LINEAR TECHNOLOGY) SWITCHING REGULATORS (100kHz) - SIDE VIEW -



L29C520PC (LOGIC DEVICES)

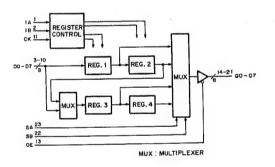
C-MOS 8-BIT 2-OR 4-LEVEL PIPELINE REGISTER WITH 3-STATE OUTPUT - TOP VIEW -



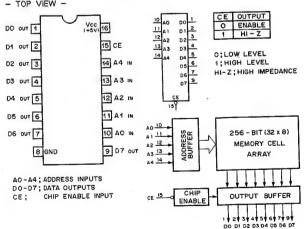
IBIB	TRANSFER OF DATA
00	D+R1 R1+R2 R2+R3 R3+R4
0 1	D + R3 R3+R4 R1, R2 ON HOLD
1 0	D+RI RI+R2 R3,R4 ON HOLD
1 1	ALL REGISTERS ON HOLD

SBSA	REGISTER SELECTED
00	REG.4
0 1	REG.3
1 0	REG.2
1 1	REG.1

O:LOW LEVEL D:DATA INPUT 1:HIGH LEVEL R:REGISTER

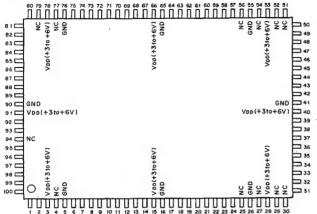


MB7112L (FUJITSU) (ACCESS TIME = 50nS) 256-BIT (32x8) PROM WITH 3-STATE OUTPUT - TOP VIEW -

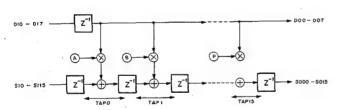


LSP001AC-Q (LOGIC DEVICES)

VIDEO SIGNAL PROCESS DIGITAL FILTER



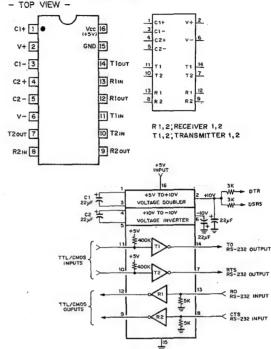
										VDD 1	=+3 to +6\
PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL
1	1	CS2	26		GND	51	-	NC	76	-	GND
2	1	WE	27	-	NC	52	-	NC	77	-	NC
3	-	Voo	28		VDD	53	-	VDD	78	-	QQV
4	-	NC	29	-	NC	54	-	NC	79	-	NC
5	- 1	GND	30	-	NC	55		GND	80	1	FZ
6	1	TI	31		DIO	.5	-	NC	81	1	OE
7	1	SI15	32	1	DI1	57	0	S000	82	1	CIO
8	1	SI14	33	1	DI2	58	0.	SO01	83	1	CI1
9	1	SI13	34	1	DI3	59	0	S002	84	1	CI2
10	1	SI12	35	1	DI4	60	0	8003	85	1	C13
11	1	SI11	36	T	DI5	61	0	SO04	86	1	CI4
12	1	SI10	37	1	D16	62	0	S005	87	1	CI5
13	1	SI09	38	1	DI7	63	0	SO06	88_	1	CI6
14		SI08	39	1	OVFIN	64	0	S007	89	1	CI7
15	-	VDD	40	-	VDD	65	-	GND	90	-	GND
16	-	GND	41	-	GND	66	-	VDD	91	-	DOV
17	1	SI07	42	0	OVFOUT	67	0	S008	92	1	CLK
18	1	SI06	43	0	D07	68	0	S009	93	1	WCK
19	1	SI05	44	0	D06	69	0	SO10	94	-	NC
20	1	SI04	45	0	DO5	70	0	SO11	95	1	AO
21	1	SI03	46	0	D04	71	0	SO12	96		A1
22	1	SI02	47	0	DO3	72	0.	SO13	97	1	A2
23	1	SIO1	48	0	D02 ·	73	0	SO14	98	1	EA_
24	1	SIOO	49	0	DO1	74	0	SO15	99		CS0
25	-	NC	50	0	D00	75	0	PO	100	1.1	CS1



INPUT
A0 - A3
C10 - C17
CLK
CS0 - CS2
D10 - D17
FZ
OE
OVFIN
S100 - S115
T1
WCK
WE COEFFICIENT RESISTOR SELECT SIGNAL
COEFFICIENT DATA INPUTS
VICEO CLOCK
CHIP SELECT
SIGNAL DATA INPUTS
FLASH EERO
CASECADE SUM OUTPUT ENABLE
OVER FLOW INPUT
CASCADE SUM INPUTS
CASCADE SUM INPUTS
CASCADE SUM INPUTS
CASCADE SUM INPUTS
COEFFICIENT WRITE CLOCK
WRITE ENABLE

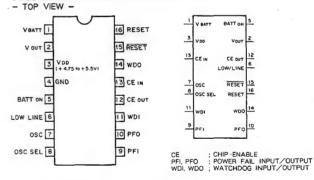
OUTPUT DOO - DO7 OVFOUT PO SO00 - SO15 : SIGNAL DATA OUTPUTS : OVER FLOW OUTPUT : TEST OUTPUT (NORMALLY NC) : CASCADE SUM OUTPUTS MAX232CPE (MAXIM)

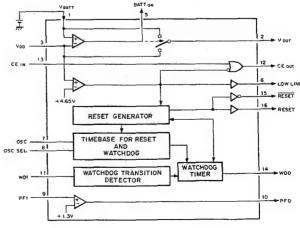
RS-232 TRANSMITTER/RECEIVER - TOP VIEW -



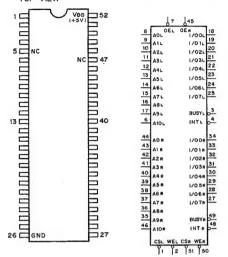
MAX691 CPE (MAXIM)

C-MOS MICROPROCESSOR SUPERVISORY CIRCUITS

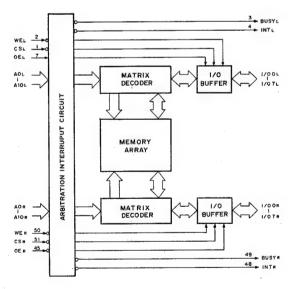




MB8421-90LP (FUJITSU) (ACCESS TIME = 90nS)
C-MOS 16384 (2Kx8) BIT DUAL PORT STATIC RAM
- TOP VIEW -

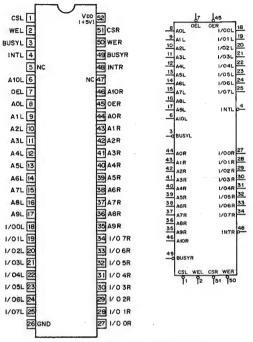


AOL-A1OL, AOR-A1OR; ADDRESS INPUTS
I/OOL-I/O7OL, I/OOR-I/O7R; DATA INPUTS/OUTPUTS
CSL, CSR; CHIP SELECT INPUT
WEL, WBR; WRITE ENABLE INPUT
OEL, OBR; OUTPUT ENABLE INPUT
BUSYL, BUSYR ; BUSY OUTPUT
INTL, INTR; INTERRUPT OUTPUT

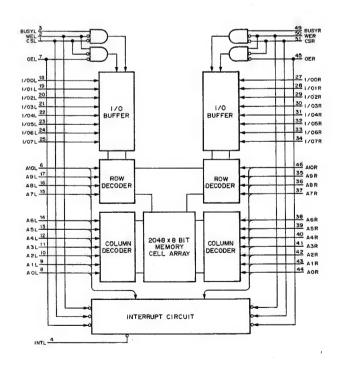


MB8431-90LP (FUJITSU)

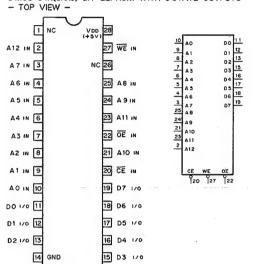
C-MOS 16K (2048x8)-BIT DUAL PORT STATIC RAM - TOP VIEW -



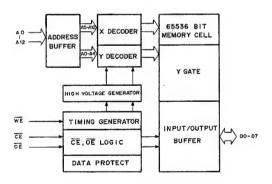
AOL - A1OL, AOR - A1OR : ADDRESS INPUTS
I/OOL - I/O7L, I/OOR - I/O7R : DATA INPUTS/OUTPUTS
CSL, CSR : CHIP SELECT INPUT
WEL, WER : WRITE ENABLE INPUT
OEL, CER ; OUTPUT ENABLE INPUT
BUSYL, BUSYR : BUSY INPUT
INTL, INTR : INTERRUPT OUTPUT



MBM28C64-25 (FUJITSU) (ACCESS TIME = 250nS) C-MOS 64K(8Kx8) BIT EEPROM WITH 3-STATE OUTPUTS

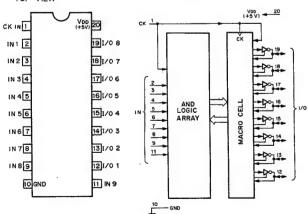


ADDRESS INPUTS
DATA INPUTS/OUTPUTS
CHIP ENABLE INPUT
WRITE ENABLE INPUT
OUTPUT ENABLE INPUT A0-A12; D0-D7; CE; WE; OE;



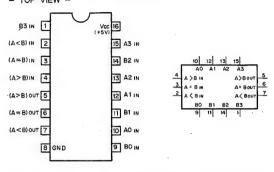
PEEL18CV8-25 (AMI) PEEL18CV8P-35 (AMI)

C-MOS ELECTRICALLY ERASABLE PROGRAMMABLE LOGIC DEVICE TOP VIEW



* ABOVE DIAGRAM SHOWS CONDITIONS BEFORE PROGRAMMING.

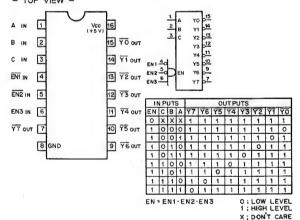
N74F85N (SIGNETICS) TTL 4-BIT MAGNITUDE COMPARATOR - TOP VIEW -



			INPUTS	3					UTPUT	6
	D	ATA COM	IPARING		CASCADING			OUTPUIS		
	A3 , B3	A2, B2	A1 , B1	AO , BO	A < B	A = B	A>B	A <b< td=""><td>A=B</td><td>A>B</td></b<>	A=B	A>B
	A3 > B3	X	X	X						
A>B	A3 = B3	A2 > B2	Х	X	x	×	x	0	٥	1
A / B	A3 = B3	A2 = B2	A1 > B1	X	l ^ '					
	A3 = B3	A2 = B2	A1 = B1	AO>BO						
					0_	0	0	1	0	1
					0	0	1	0	0	1
A=B	A3 = B3	A2 = B2	A1 = B1	A0+80	X	1	X	0	1	0
					1	0	0	1	0	0
					1	0	1	0	0	0
	A3 = B3	A2 = B2	A1 = B1	AO <bo< td=""><td></td><td></td><td></td><td></td><td></td><td></td></bo<>						
A/R	A3 = B3	A2 = B2	A1 < B1	Х	×	×	×	١.	0	
M \D	A3 = B3	A2 <b2< td=""><td>Х</td><td>X</td><td>1 ^</td><td>l î</td><td>^</td><td>Ι'</td><td>0</td><td>1 "</td></b2<>	Х	X	1 ^	l î	^	Ι'	0	1 "
	A3< B3	X	X	X	1		1			1

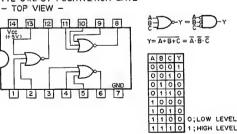
SN74ALS138N (TI)

TTL 3-TO-8-LINE DECODER/DEMULTIPLEXER - TOP VIEW -



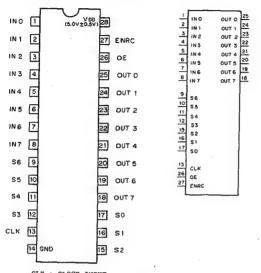
SN74ALS27N (TI)

TTL 3-INPUT POSITIVE-NOR GATE

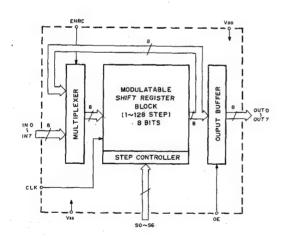




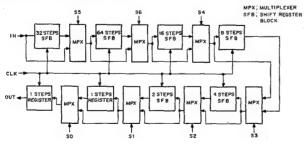
C-MOS 128 STEPS 8 BITS PROGRAMABLE SHIFT REGISTER — TOP VIEW —

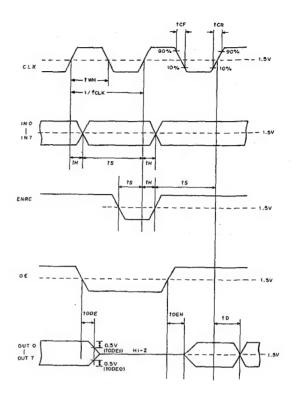


CLK ; CLOCK INPUT ENRC ; CIRCULATION CONTROL IN0-IN7 ; DATA IMPUT OE ; OUTPUT ENABLE OUT0-OUT7 ; DATA OUTPUT S0-S6 ; REGISTER LENGTH SELECT



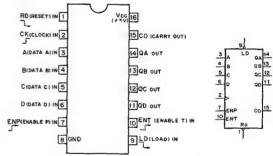
MODULATABLE SHIFT REGISTER BLOCK





SN74ALS161BN (TI)

TTL PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER - TOP VIEW -



CON	TROL	INP	UTS	
Ro	LD	ENP	ENT	MODE
0	x	×	×	RESET (ASYNCHRONOUS
1	0	×	×	PRESET (SYNCHRONOUS)
1	1	0	Х	NO COUNT
1	1	Х	0	NO COUNT
1	1	1	1	COUNT

O;LOW LEVEL 1;HIGH LEVEL X;DON'T CARE

CARRY OUTPUT "CO"

CO IS HIGH WHEN ENT INPUT IS

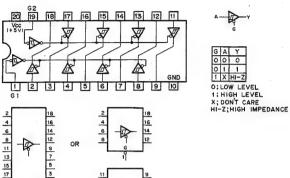
	COUNT	OUTPUTS					
L	JOONT	QD	QC	QB	QA		
	0	0	0	0	0		
	1_	0	0	0	1		
	2	0.	0	1	0		
	3	0	0	1	1 .		
	4	0	1	0	0		
	5	0	. 1	0	1		
	6	0	. 1 .	.1.	. 0		
	7	0	1	1	1		
	В	1	0	0	0		
	9	_1_	. 0.	0	. 1		
	10	_1	0	1	0		
	11	1	0	1	1		
	12	_1	1	0	0		
	13	_1	1	0	1		
	14	1	. 1	. 1	0		
	15	1	1	1	1		

COUNT SEQUENCE

Ro 1-d

SN74ALS30AN (TI)

SN74ALS244BN (TI)



SN74ALS273N (TI)

TTL D-TYPE FLIP-FLOP WITH DIRECT RESET

- TOP VIEW
08 DB D7 07 06 D6 D5 05 CK

20 19 18 17 16 15 144 13 12 11

Vec

(*5v)

Vec

(*5v)

0 ; Low Level

1; High Level

2; High Level

3; High Level

2; High Level

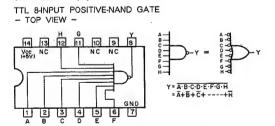
2; High Level

3; High Level

2; High Level

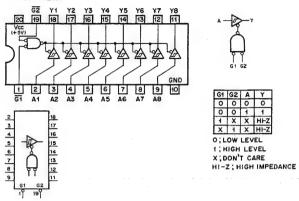
3; High Level

4; High Level



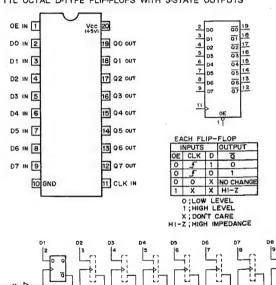
SN74ALS541N (TI)

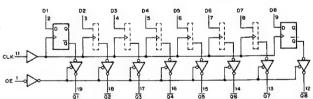
TTL BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS - TOP VIEW -



SN74ALS564AN (TI)

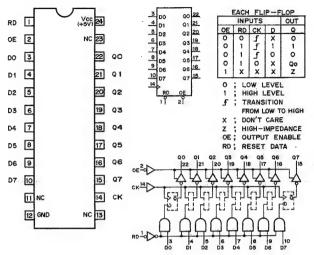
TTL OCTAL D-TYPE FLIP-FLOPS WITH 3-STATE OUTPUTS





SN74ALS575NT (TI)

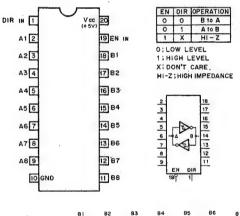
TTL 3-STATE OCTAL D-TYPE EDGE-TRIGGERED FLIP-FLOPS WITH CLEAR - TOP VIEW - .

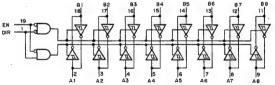


SN74ALS640AN (TI) SN74LS640N (TI)

TTL BILATERAL SCHMITT TRIGGER BUS TRANSCEIVERS INVERTER WITH 3-STATE OUTPUT

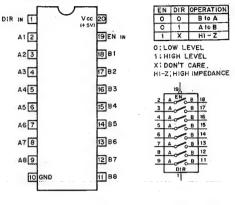


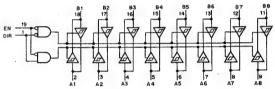




SN74ALS645AN (TI)

TTL BILATERAL SCHMITT TRIGGER BUS TRANSCEIVERS WITH 3-STATE OUTPUT - TOP VIEW -

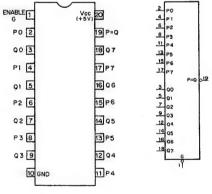


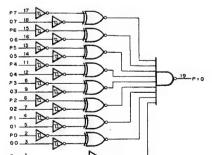


SN74ALS688N (TI)

TTL 8-BIT MAGNITUDE COMPARATOR

- TOP VIEW -



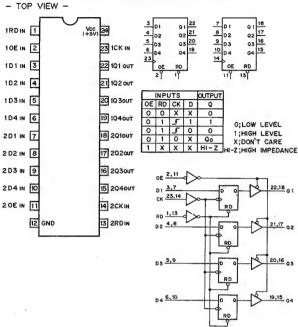


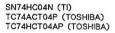
	JTS	OUTPUT				
P,Q	G	P=Q				
P≈Q	0	0				
P>Q	0	1				
P <q< td=""><td>0</td><td>1</td></q<>	0	1				
l x	1	1				
o: Lo	O: LOW LEVEL					

O; LOW LEVEL 1; HIGH LEVEL X; DON'T CARE

SN74ALS874NT (TI)

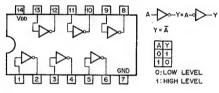
TTL DUAL 4-BIT D-TYPE EDGE-TRIGGERED FLIP-FLOPS





C-MOS HEX INVERTER - TOP VIEW -



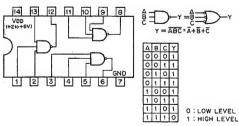


NOTE:	
TYPE	Von
74ACT04 TYPES 74HCT04 TYPES	+5V
TC74AC04F	+2 to +5.5V
TC74ACT04F	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

SN74HC10N (TI)

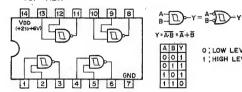
C-MOS 3-INPUT NAND GATE





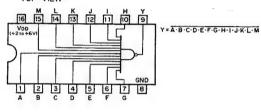
SN74HC132N (TI)

C-MOS 2-INPUT NAND SCHMITT TRIGGER - TOP VIEW -



SN74HC133N (TI)

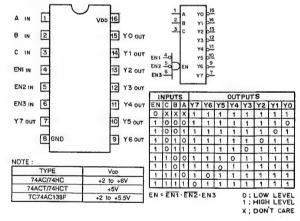
C-MOS 13-INPUT NAND GATE - TOP VIEW -



0 LOW LEVEL

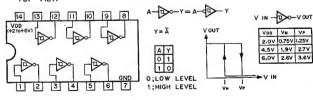
SN74HC138N (TI)

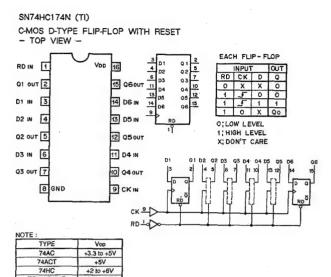
C-MOS 3-TO-8 LINE DECODER/DEMULTIPLEXER - TOP VIEW -

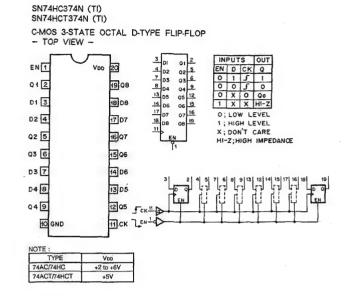


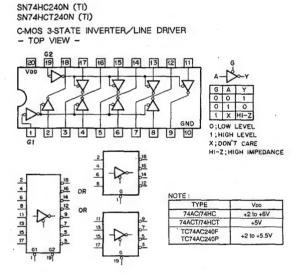
SN74HC14N (TI)

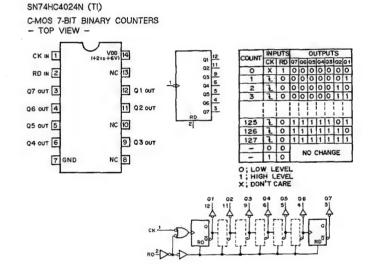
C-MOS SCHMITT TRIGGER INVERTER - TOP VIEW -

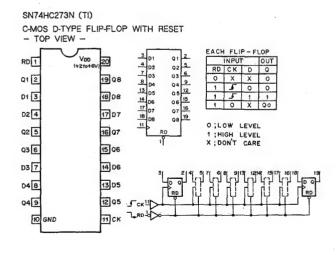


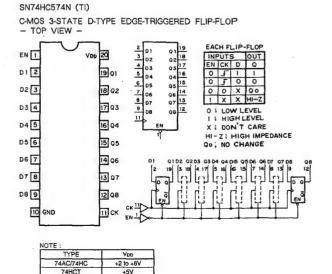






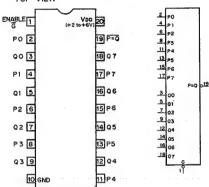


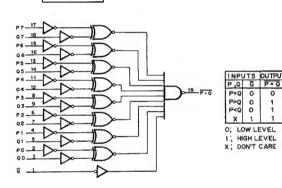




SN74HC688N (TI)

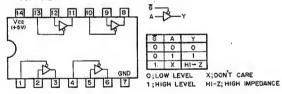
C-MOS 8-BIT MAGNITUDE COMPARATOR - TOP VIEW -





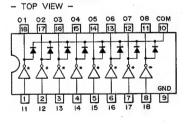
SN74LS125AN (TI)

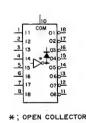
TTL BUS BUFFER GATES WITH 3-STATE OUTPUTS - TOP VIEW -

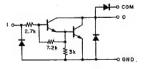


TD62083AP (TOSHIBA)

DARLINGTON DRIVER







SN74LS682N (TI)

10 GND

TTL 8-BIT MAGNITUDE COMPARATOR WITH TOTEM-POLE OUTPUTS - TOP VIEW -

P>0 1 2 PO 4 P1 6 P2 8 P3 11 P4 13 P5 15 P6 17 P7 Vcc 20 19 P=Q PO 2 00 3 18 Q7 P1 4 17 P7 P=Q 19 Q1 5 16 06 3 Q0 5 Q1 7 Q2 9 Q3 12 Q4 14 Q5 16 Q6 18 Q7 P>0 P2 6 15 P6 14 Q5 Q2 7 P3 8 13 P5 Q3 9 12 04

11 P4

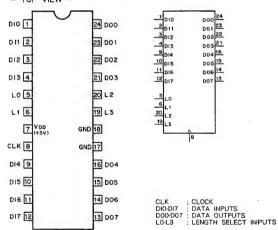
P <q< th=""><th>1 1</th></q<>	1 1
1; HIGH LEV	
INPUT OF	SN74LS684
	₹12K
INPUT -	*
	<u>₩</u>
*	₹
L	***
	1; HIGH LEV! O; LOW LEV INPUT OF Vec

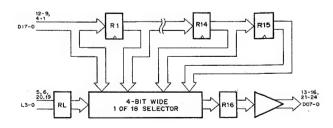
0UTPUTS P=Q P>0 0 1

INPUTS

TMC2111B2C (TRW)

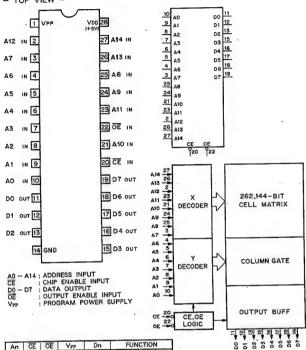
C-MOS VARIABLE-LENGTH SHIFT REGISTER - TOP VIEW -





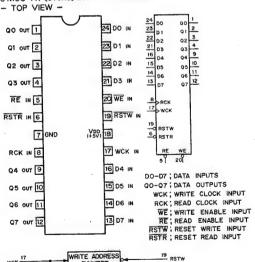
TMS27C256-15JL (TI)

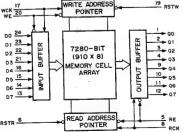
C-MOS 256K(32Kx8)-BIT ERASABLE PROM WITH 3-STATE OUTPUTS - TOP VIEW -



uPD42101C-3 (NEC)

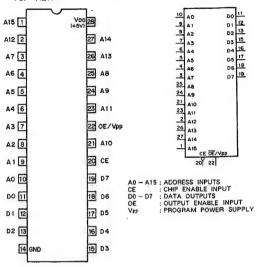
C-MOS 7K (910x8)-BIT FIFO MEMORY





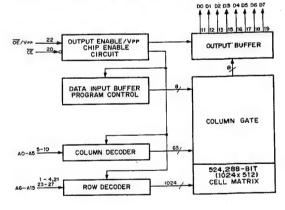
TMS27C512-20JL (TI)

C-MOS 512K(65,536x8 = 524,288)-BIT ERASABLE PROM - TOP VIEW -



Añ	CE	OE/Vpp	VDD	Dn	FUNCTION
Ain	0	0	+5V	Dour	READ
Ain	0	1	+5٧	HI-Z	OUTPUT DISABLE
X	1	X	+5V	HI-Z	STANDBY
AIN	0	+12.5V	+6V	DIN	PGM
AIN	0	0	+6V	Dour	PGM VERIFY
X	1	+12.5V	+6V	HI-Z	PGM INH

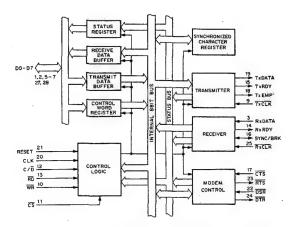
0:LOW LEVEL 1:HIGH LEVEL X:DON'T CARE H-Z:HIGH IMPEDANCE



uPD71051C - 10 (NEC)

- TOP VIEW -

C-MOS SERIAL CONTROL UNIT

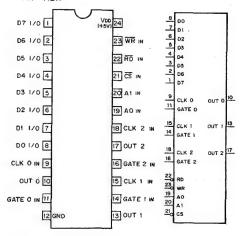


ĊŚ	RD	WR	C/D	MODE	FUNCTION
0	0	1	0	RECEIVE DATA BUFFER> DATA BUS	READ RECEIVE DATA
0	0	1	1	STATUS REGISTER> DATA BUS	READ STATUS
0	1	0	0_	DATA BUS> TRANSMIT DATA BUFFER	WRITE RECEIVE DATA
0	1	0	1	DATA BUS> CONTROL WORD REGISTER	WRITE CONTROL WORD
0	1	1	X	DATA BUS: HIGH IMPEDANCE	
1	X	X	X	DATA BUS: HIGH IMPEDANCE	

1:HIGH LEVEL 0:LOW LEVEL X:DON'T CARE

UPD71054C-10 (NEC)

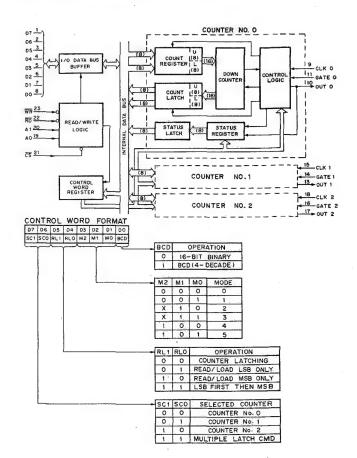
C-MOS PROGRAMMABLE TIMER COUNTER - TOP VIEW -

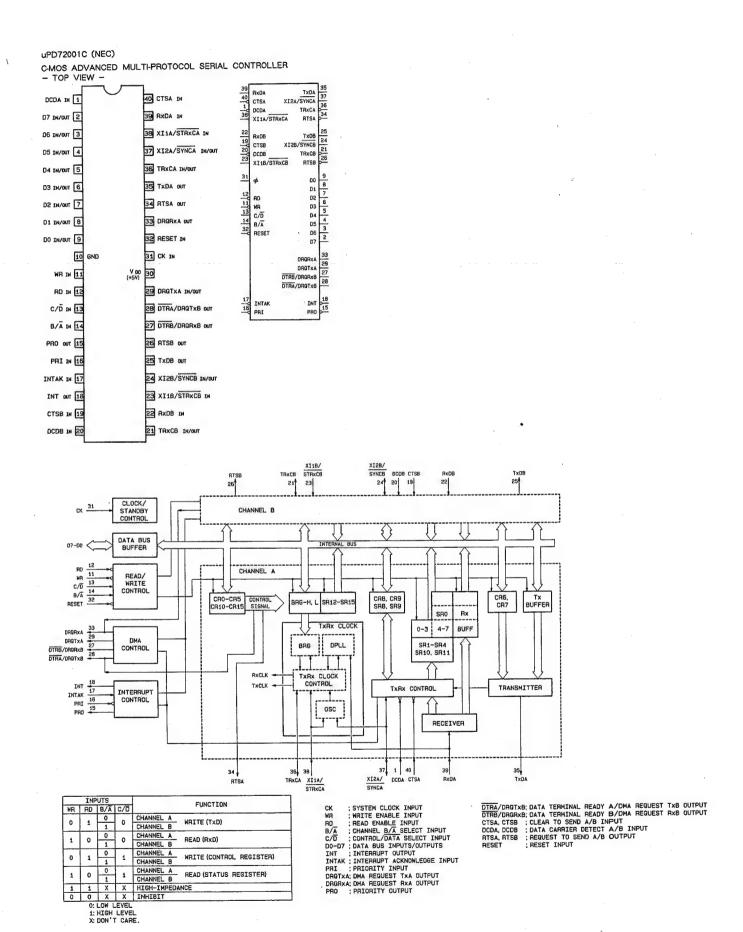


	IN	PU	TS		FUNCTION
cs	RD	WR	Αſ	AO	PONCTION
0	1	0	0	0	Load Counter No. O
0	1	0	0	1	Load Counter No. 1
0	1	0	1	0	Load Counter No. 2
0	1	0	1	1	Control Word
0	0	1	0	0	Read Counter O
0	0	1	0	1	Read Counter 1
0	0	1	1	0	Read Counter 2
0	0	1	1	1	No-Operation (HI-Z)
1	X	Х	х	X	Disable (HI-Z)
0	1	1	х	х	No-Operation (HI-Z)

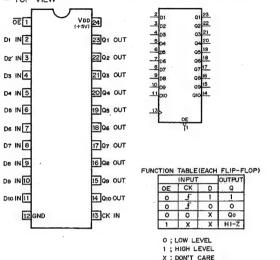
A0, A1 : COUNTER SELECT INPUTS
CLK 0 - 2 : COUNTER CLOCK INPUTS
CS : CHIP SELECT INPUT
00 - D7 : 8-BIT DATA INPUTS/OUTPUTS
GATE 0 - 2 : COUNTER GATE INPUTS
DUT 0 - 2 : COUNTER OUTPUTS
RD : READ COUNTER INPUT
WR : WRITE CMD OR DATA INPUT

O;LOW LEVEL
1;HIGH LEVEL
X;DON'T CARE
HI-Z;HIGH IMPEDANCE



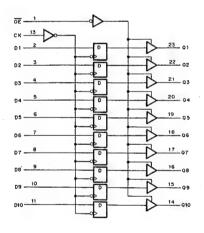


C-MOS 10-BIT BUS INTERFACE FLIP-FLOPS WITH 3-STATE OUTPUTS — TOP VIEW —



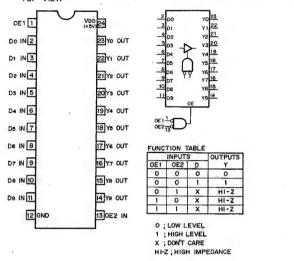
HI-Z; HIGH IMPEDANCE

LOGIC DIAGRAM (POSITIVE LOGIC)



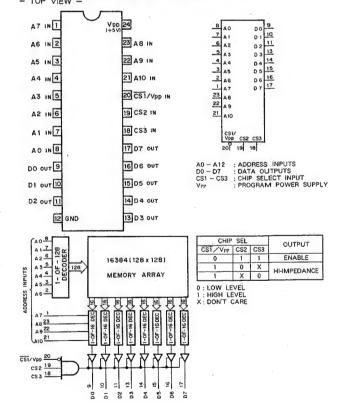
V74ACT827PS (KANEMATSU)

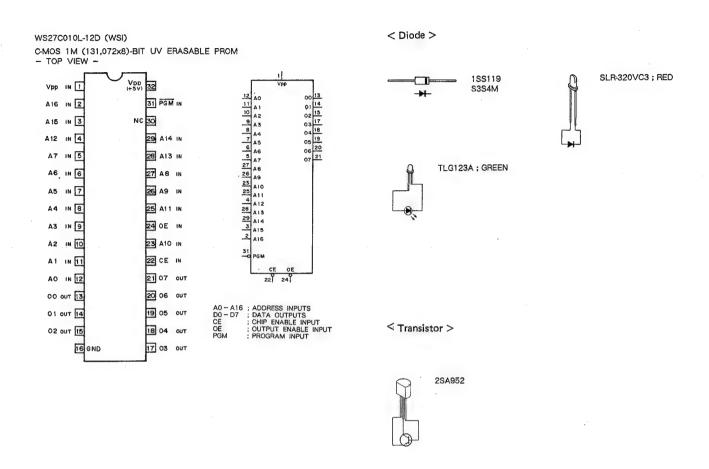
C-MOS 10-BIT BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS — TOP VIEW —



WS57C291B-45S (WSI) WS57C291B-45T (WSI)

C-MOS 16K-BIT (2048x8) HIGH SPEED ERASABLE P-ROM - TOP VIEW -





等価回路はICメーカーのData Bookに従いました。

The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

SECTION 8 SCHEMATIC DIAGRAMS

回路図内において、REF.NOの近傍に下記記号が記載されていますが、これは生産時の部品データです。

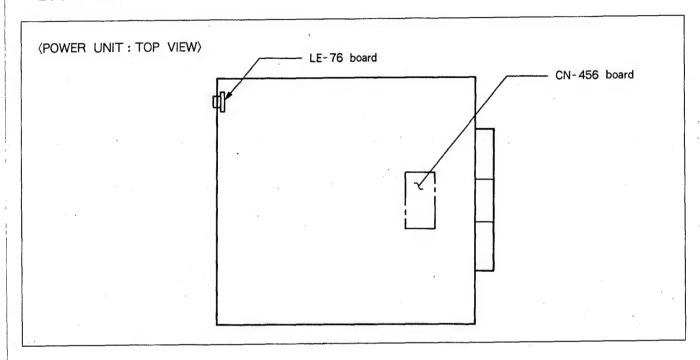
In the schematic diagrams, the following marks are described nearby reference number. These are parts data at factory.

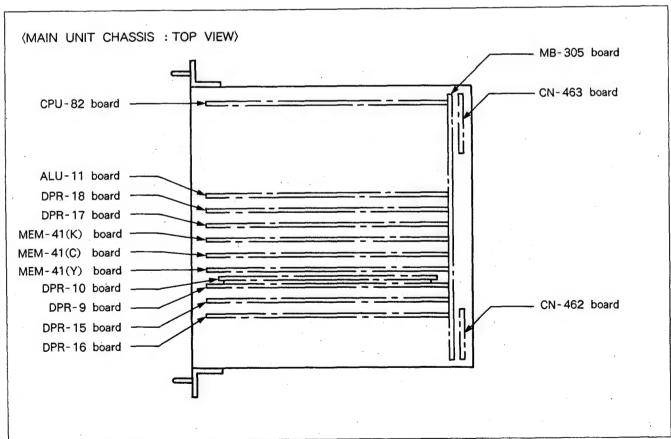
CAPACITOR(C)		RESISTOR(R)		
		VARIABLE	RESISTOR(RV)	
	•			
AL {	FLECTROLYTIC	RC)	CARRON	
AS J	ELECTROLYTIC	RD J	CARBON	
T A }	TANTALUM	RF }	FUSE	
CA		RN)	14 = 7 4 1	
cc		RS S	METAL	
ccs	CERAMIC	RW }	WIREWOUND	
СМ				
cs				
MPS]				
PP				
PS	MYLAR			
PT J				
MD }	DIPPED MICA			
MS }	MICA			

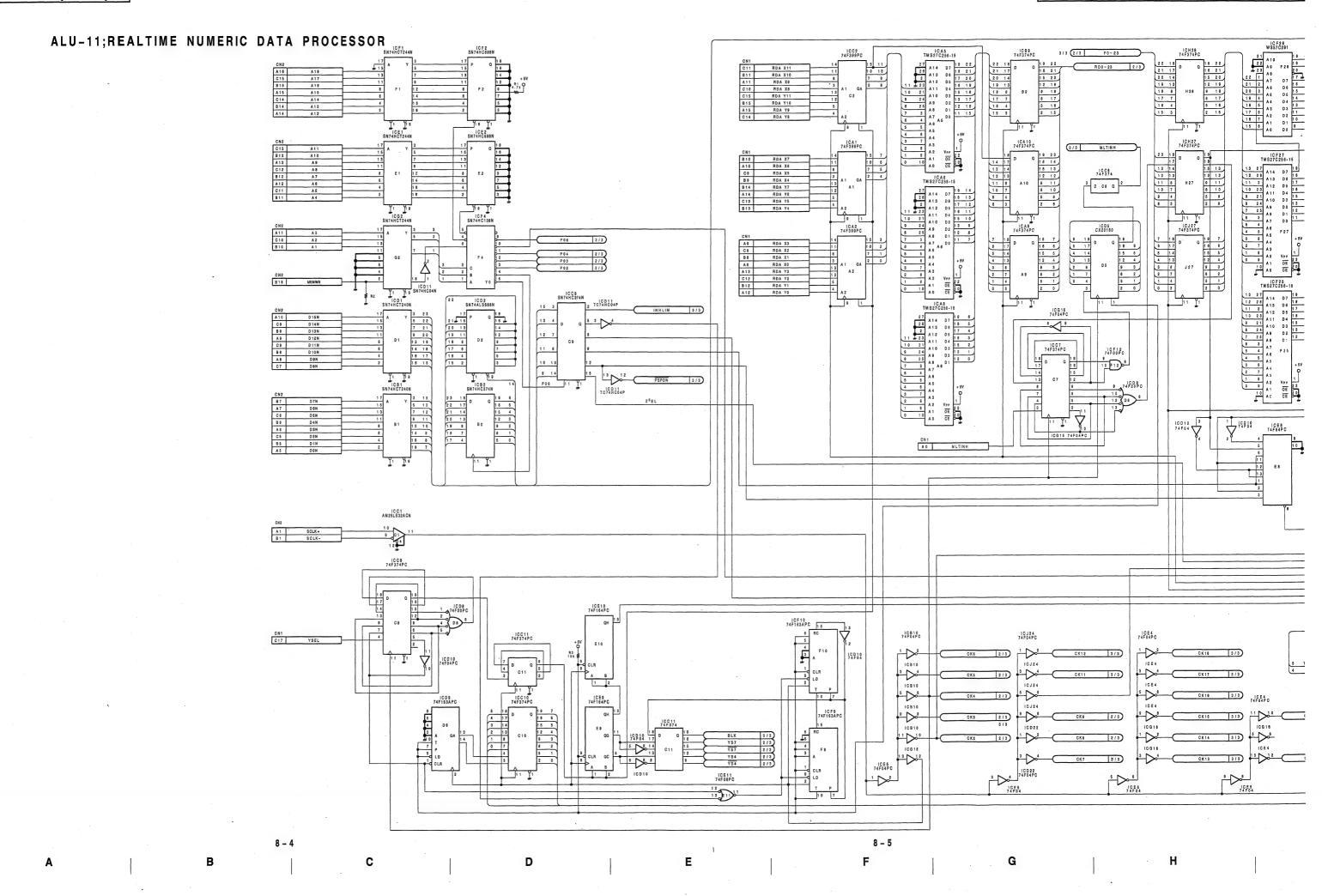
· CIRCUIT INFORMATION

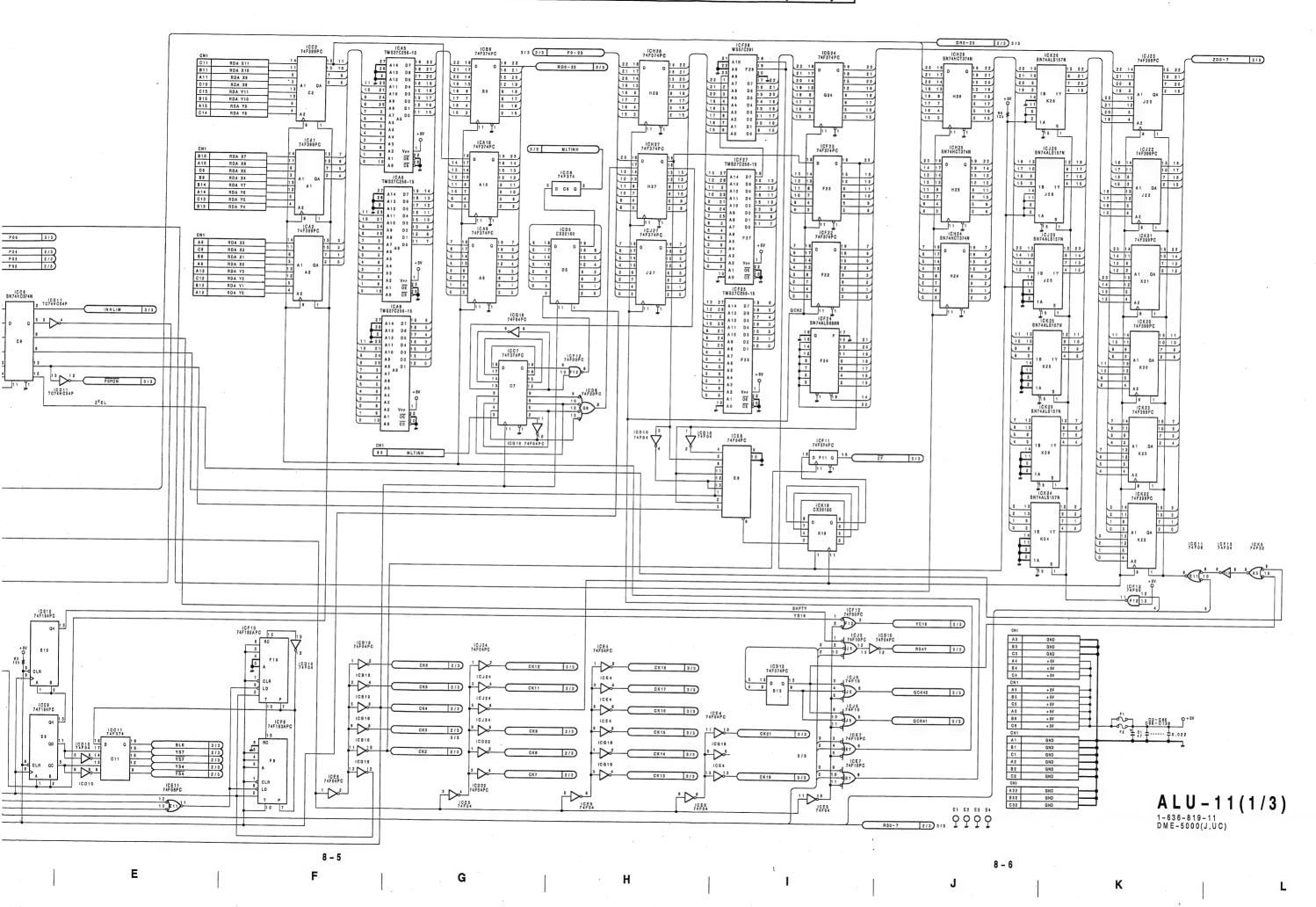
Board	Board Function	
ALU – 11	Real-time Numeric Data Processor	8 – 4
CN - 456	Power Supply Connector Board	8 – 249
CN - 462	BNC Connector Board	8 – 253
CN - 463	D SUB Connector Board	8 – 257
CPU - 82	System Control and Communications	8 – 23
DLP - 9	Horizontal and Vertical Low Pass Filter	8 – 37
DLP - 10	IIR Vertical Low Pass Filter	8 – 82
DPR - 15	Input Pixel Effect Generator and Motion Detect	8 – 104
DPR - 16	Output Recursive Effect Generator and Border Generator	
DPR - 17	Memory Address Selector and Write Address Generator	8 – 175
DPR - 18	- 18 Read Address Generator and Split Mirror Generator	
LE - 76	LE - 76 Power LED Board	
MB - 305	Mother Board	
MEM - 41 3 Field Video Memory and Interpolator		8 – 228

· LOCATION OF PRINTED CIRCUIT BOARDS









SECTION 8 SCHEMATIC DIAGRAMS

回路図内において、REF.NOの近傍に下記記号が記載されていますが、これは生産時の部品データです。

In the schematic diagrams, the following marks are described nearby reference number.

These are parts data at factory.

CAPACI	ITOR(C)	RESISTOR(R) VARIABLE RESISTOR(RV)			
A L AS T A CA CC CCS CM CS	<pre>} ELECTROLYTIC } TANTALUM CERAMIC</pre>	RC)		
MPS PP PS PT MD	MYLAR DIPPED MICA MICA				

· CIRCUIT INFORMATION

Board	Function		
ALU – 11	Real-time Numeric Data Processor		
CN - 456	Power Supply Connector Board		
CN - 462	BNC Connector Board		
CN - 463	D SUB Connector Board	8 – 257	
CPU - 82	System Control and Communications	8 – 23	
DLP - 9	Horizontal and Vertical Low Pass Filter		
DLP - 10	10 IIR Vertical Low Pass Filter		
DPR - 15	Input Pixel Effect Generator and Motion Detect		
DPR - 16	Output Recursive Effect Generator and Border Generator		
DPR - 17	Memory Address Selector and Write Address Generator	8 – 175	
DPR - 18	Read Address Generator and Split Mirror Generator		
LE - 76	76 Power LED Board		
MB - 305	Mother Board		
MEM - 41 3 Field Video Memory and Interpolator		8 – 228	

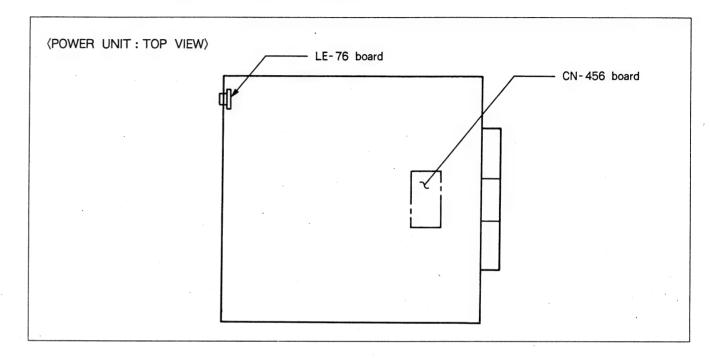
8 - 2

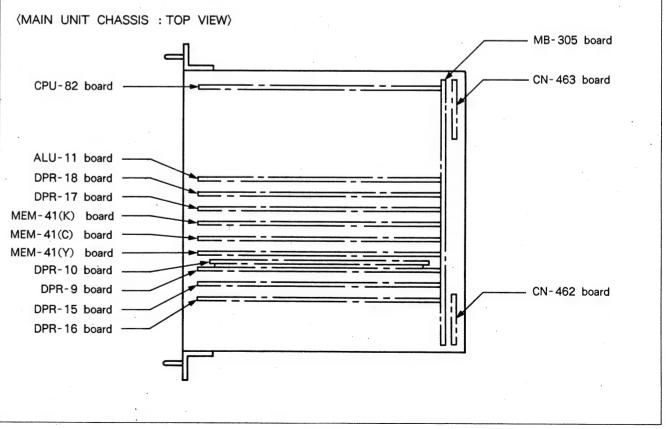
· CIRCUIT INFORMATION

anumber.

Board	ALU - 11 Real-time Numeric Data Processor CN - 456 Power Supply Connector Board CN - 462 BNC Connector Board CN - 463 D SUB Connector Board	
ALU – 11		
CN - 456		
CN - 462		
CN - 463		
CPU - 82		
DLP – 9	Horizontal and Vertical Low Pass Filter	8 – 37
DLP - 10	DLP - 10 IIR Vertical Low Pass Filter DPR - 15 Input Pixel Effect Generator and Motion Detect DPR - 16 Output Recursive Effect Generator and Border Generator DPR - 17 Memory Address Selector and Write Address Generator DPR - 18 Read Address Generator and Split Mirror Generator LE - 76 Power LED Board MB - 305 Mother Board MEM - 41 3 Field Video Memory and Interpolator	
DPR - 15		
DPR - 16		
DPR - 17		
DPR - 18		
LE - 76		
MB - 305		
MEM - 41		

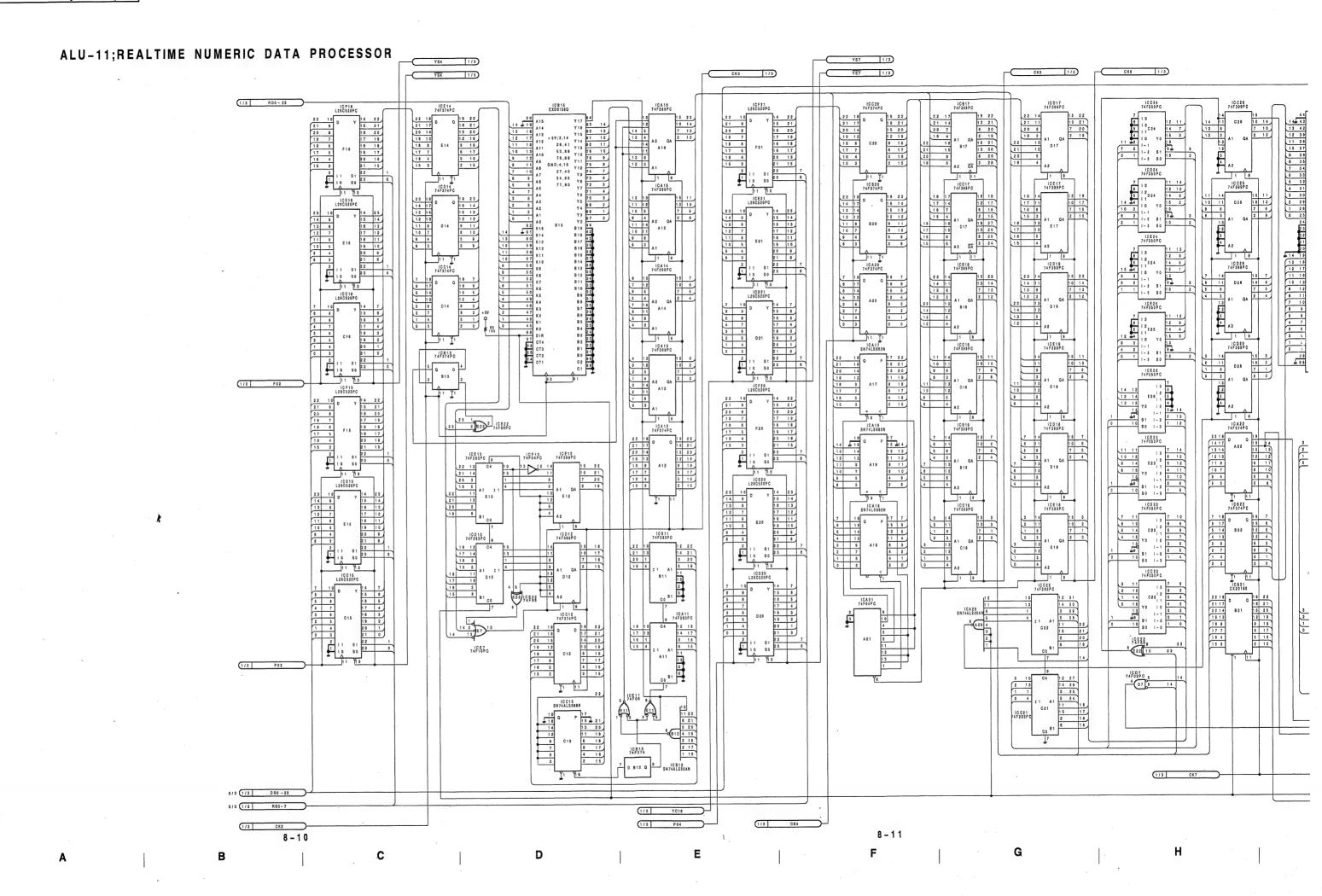
· LOCATION OF PRINTED CIRCUIT BOARDS

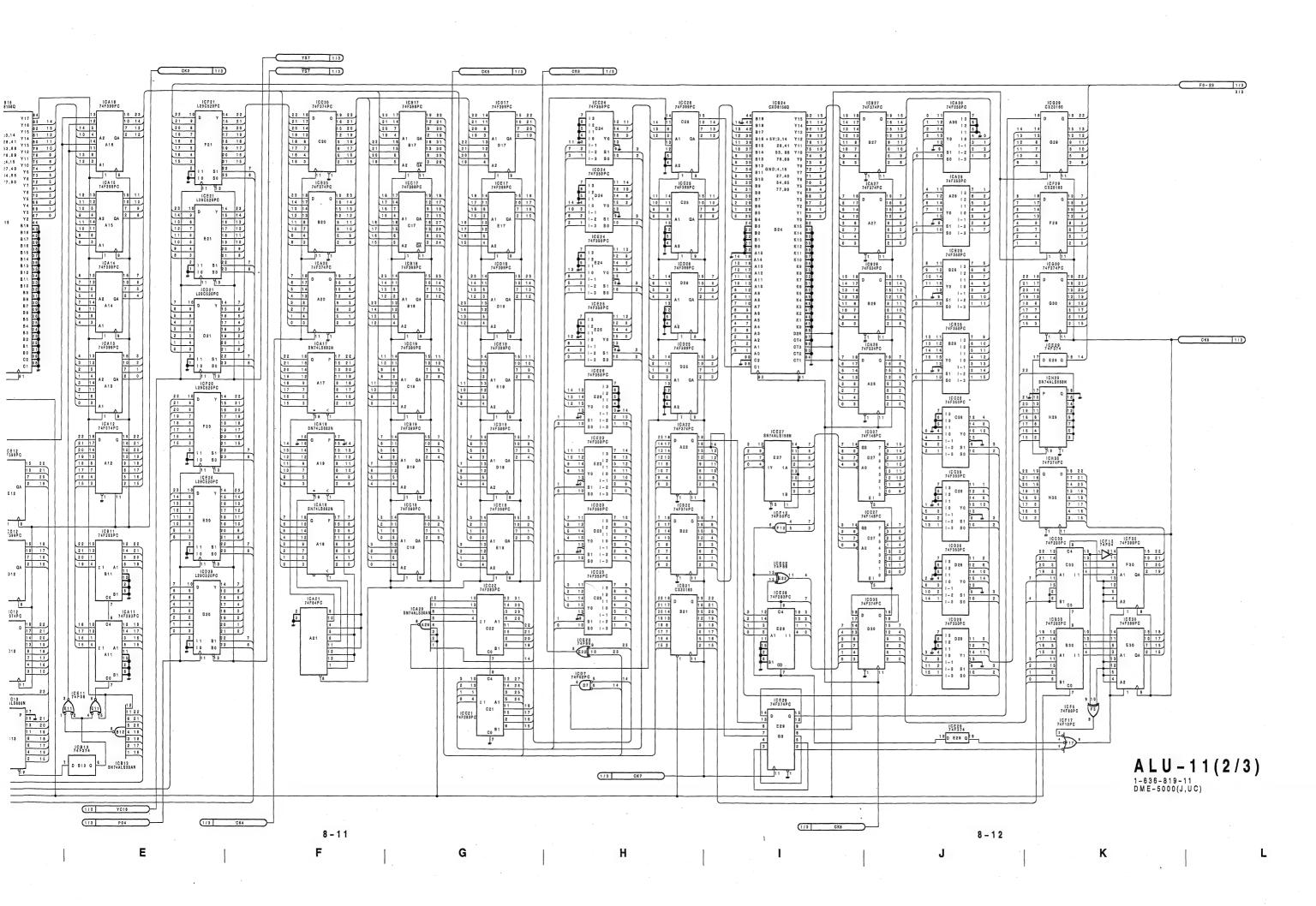


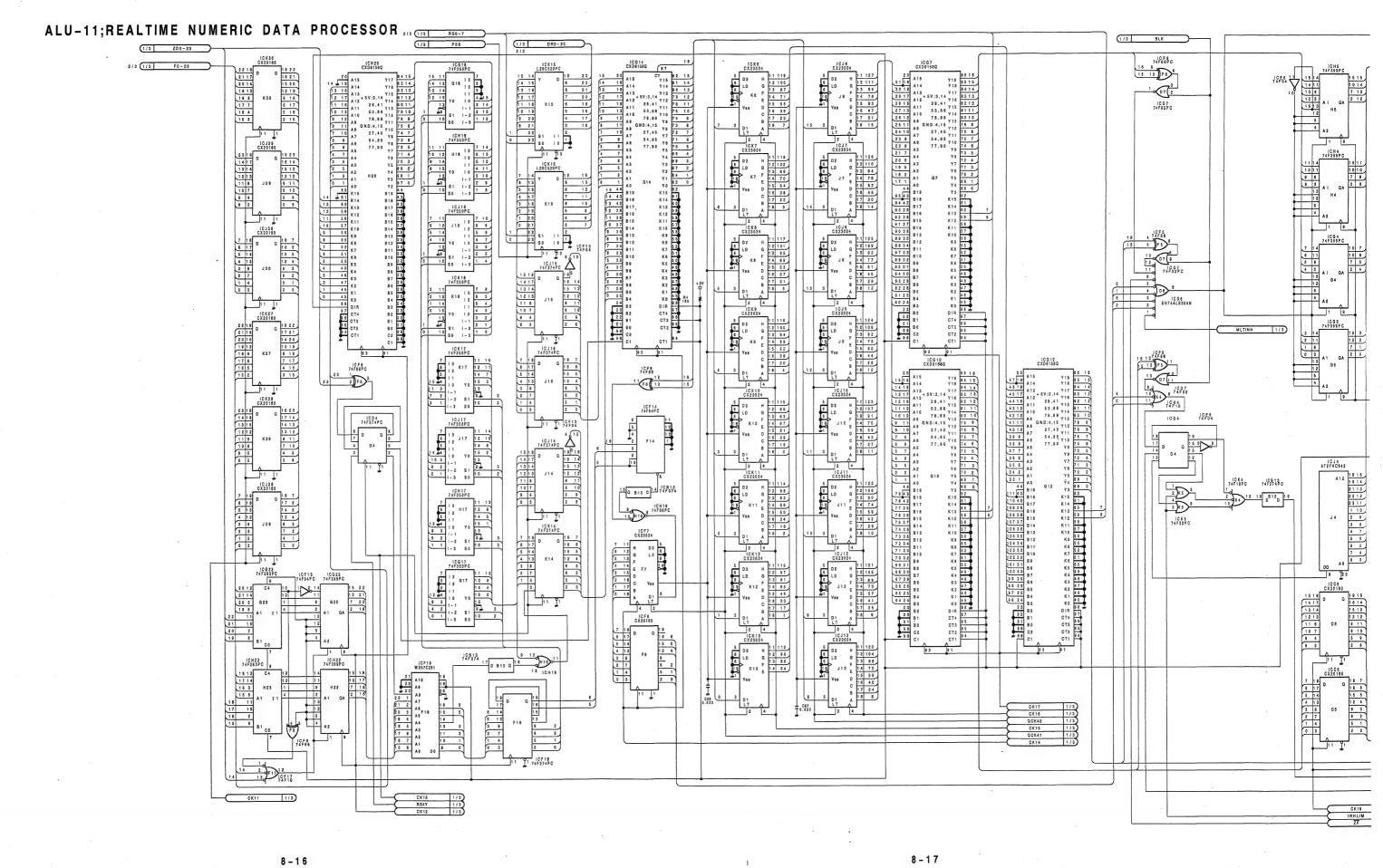


8 – 2

8 - 3







Α

C

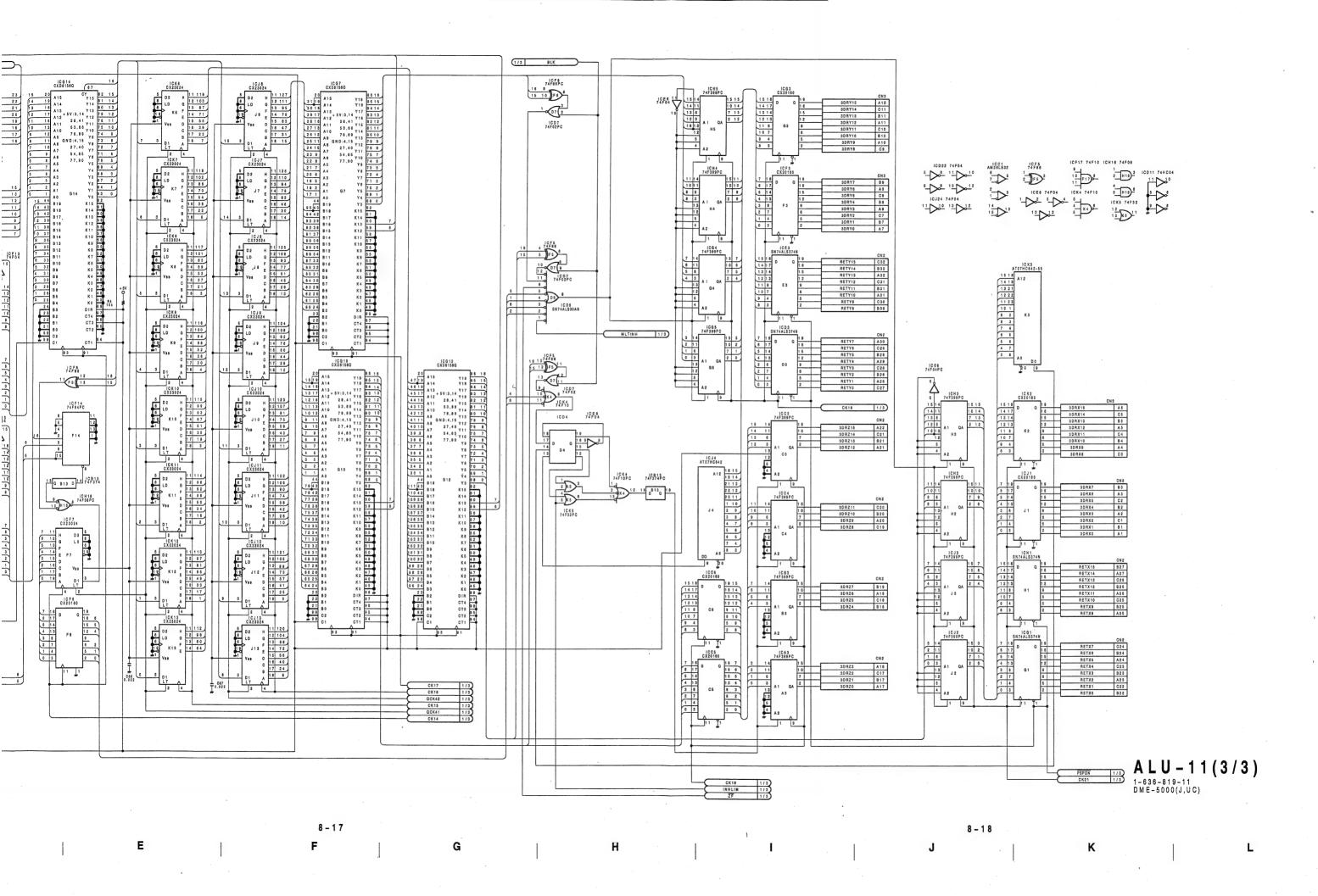
D

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G

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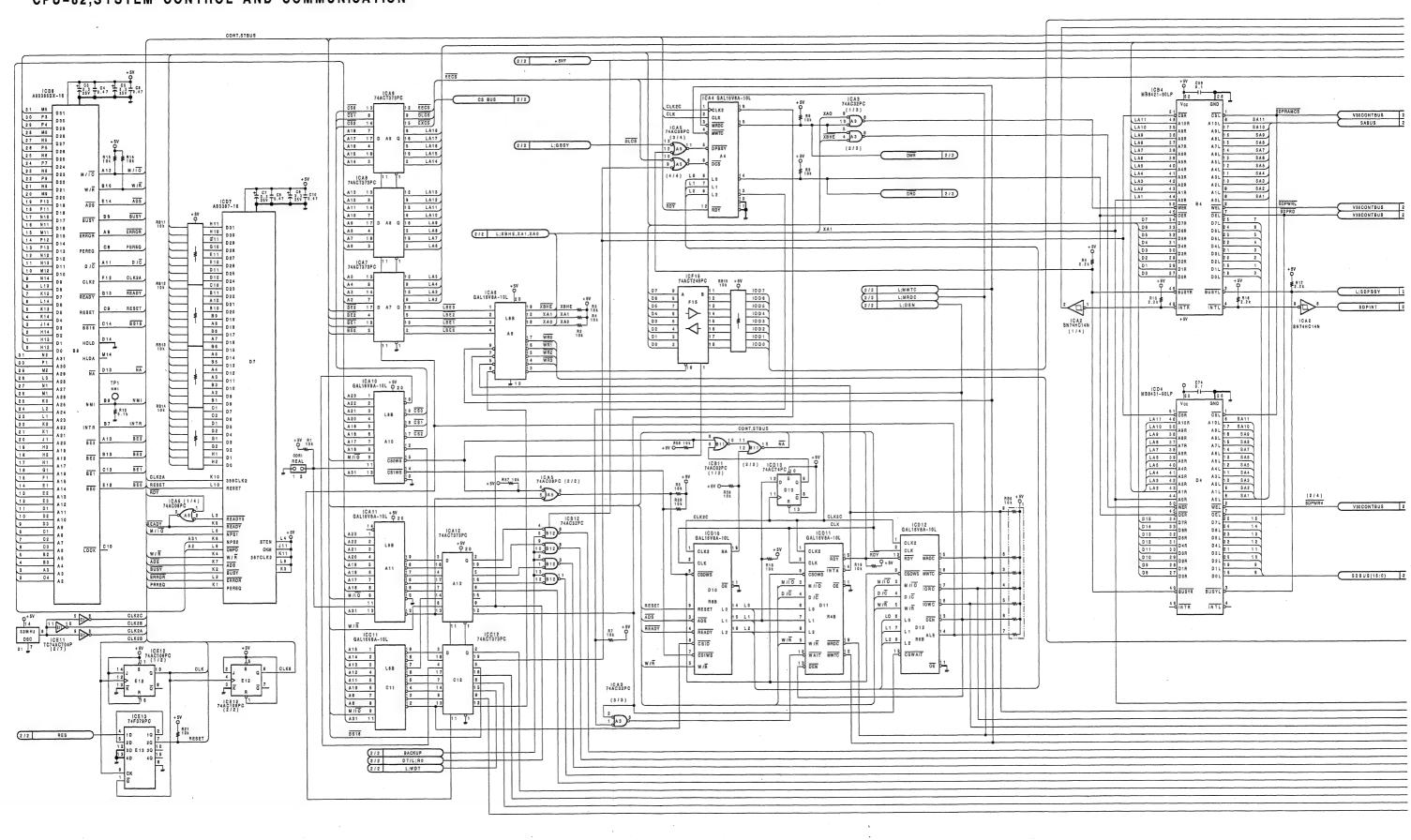


CPU-82; SYSTEM CONTROL AND COMMUNICATION

1

2

3



8 - 2 3

C

D

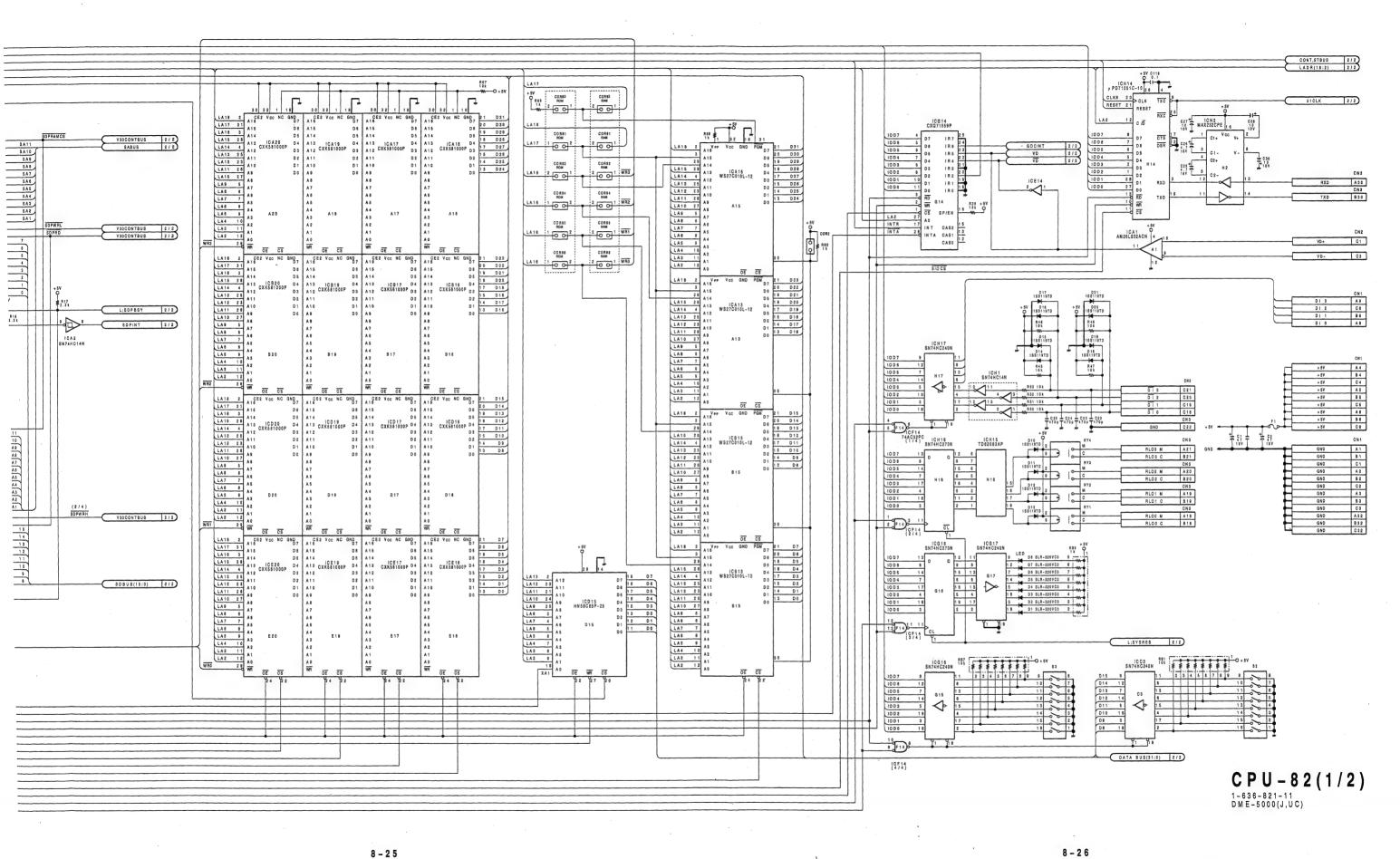
F

8 - 24

G

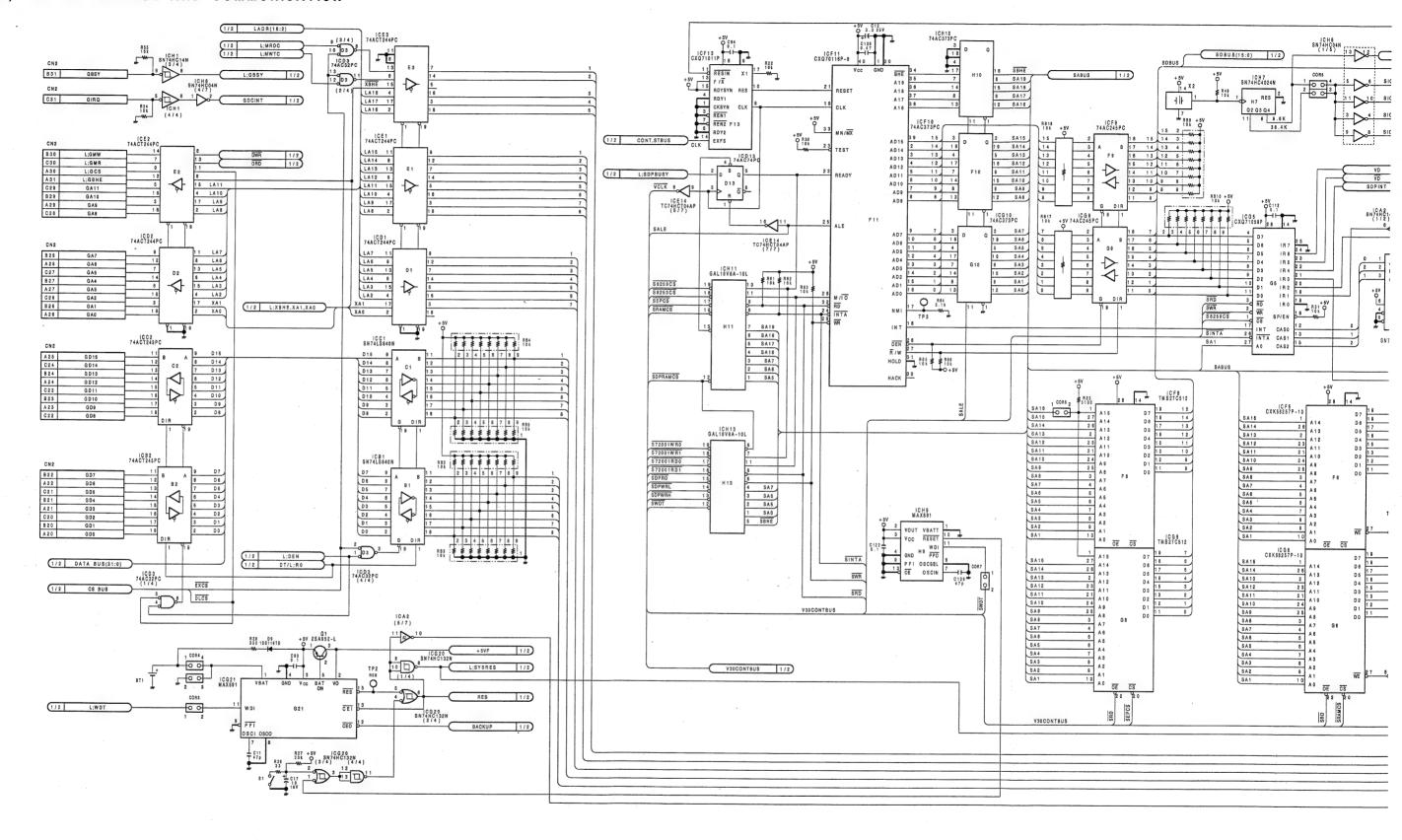
H

4



H I N P

CPU-82; SYSTEM CONTROL AND COMMUNICATION



8 - 3 0

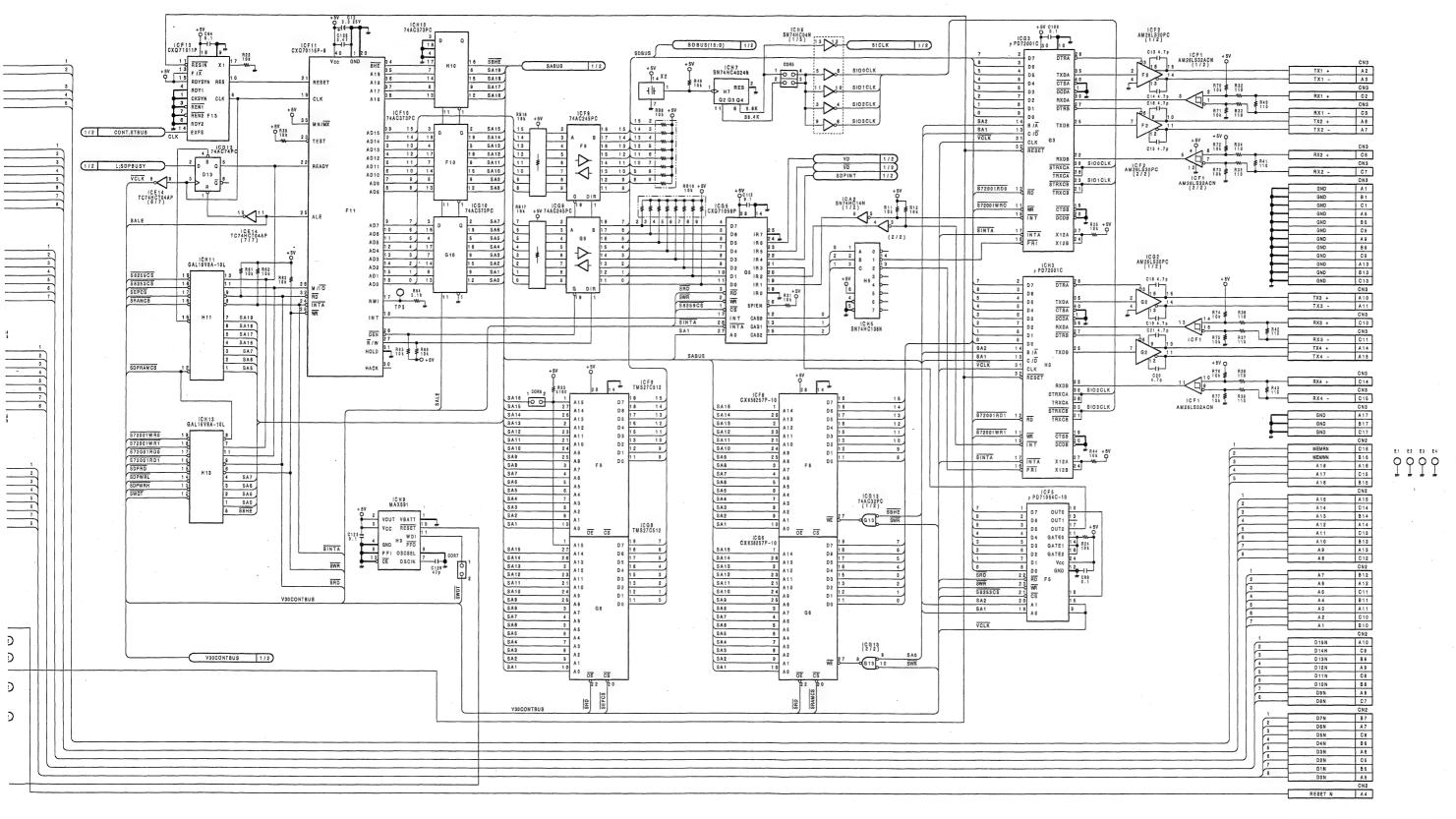
В

С

D

8 - 3 1 =

G



CPU-82(2/2)

8 – 3 1

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Н

8 - 3 2

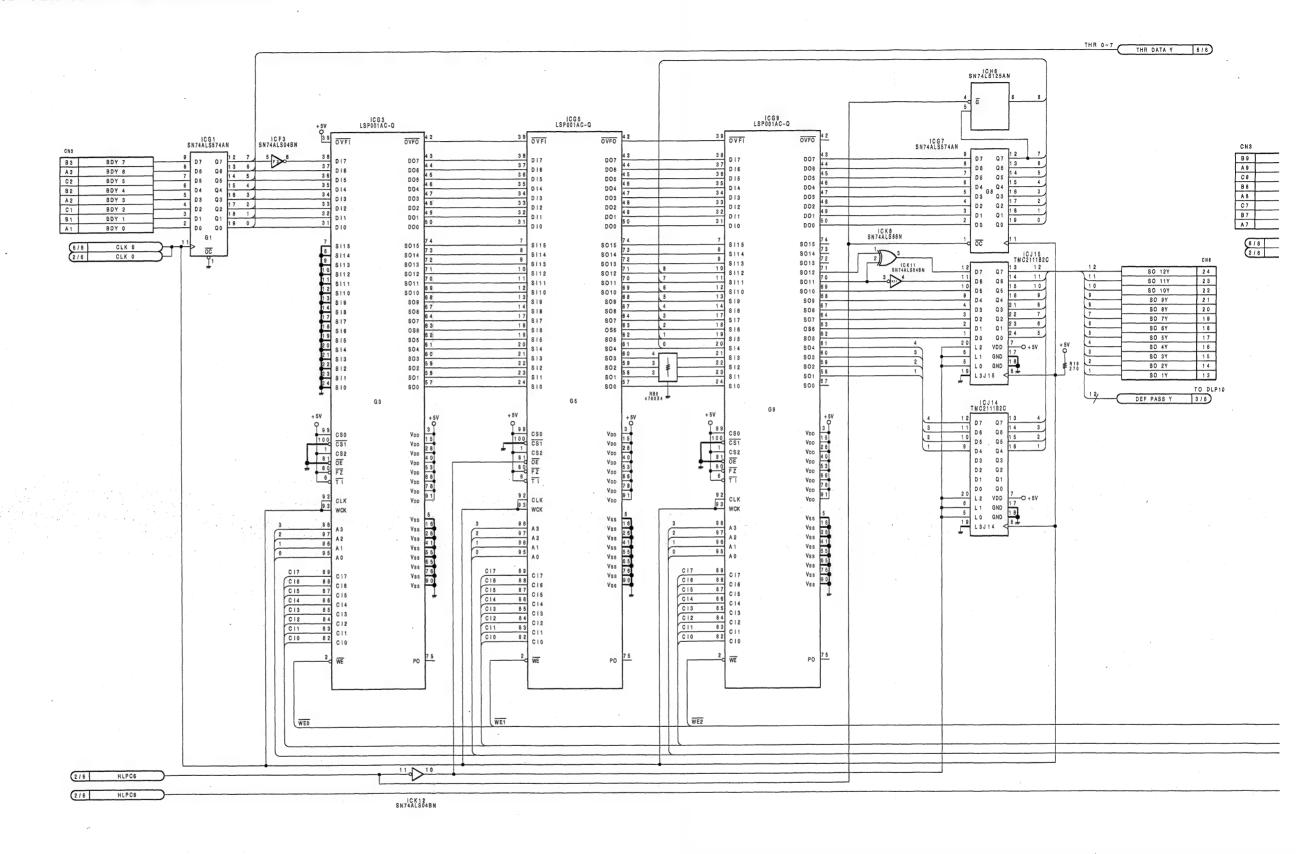
K

|

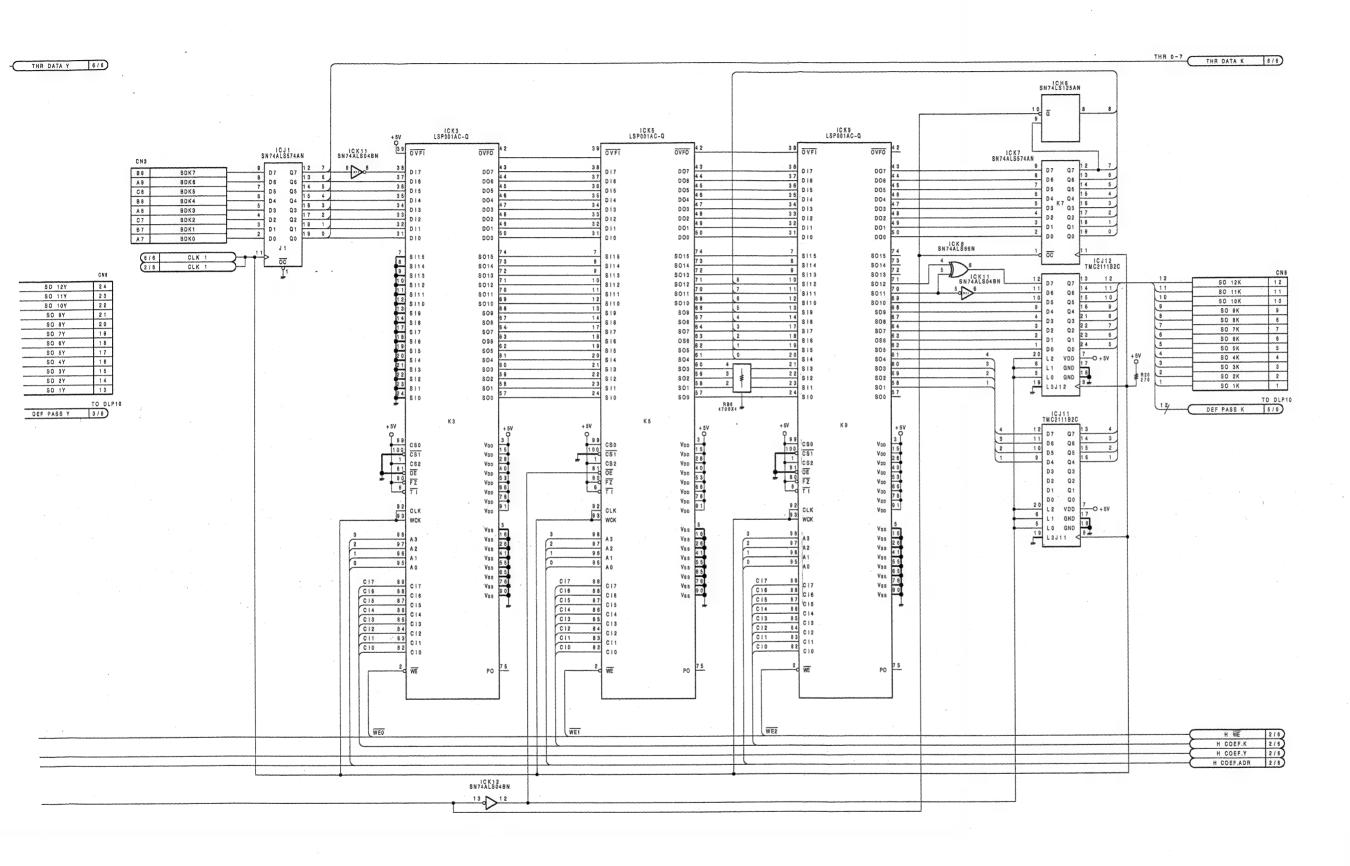
DLP-9:HORIZONTAL AND VERTICAL LOW PASS FILTER

1

3



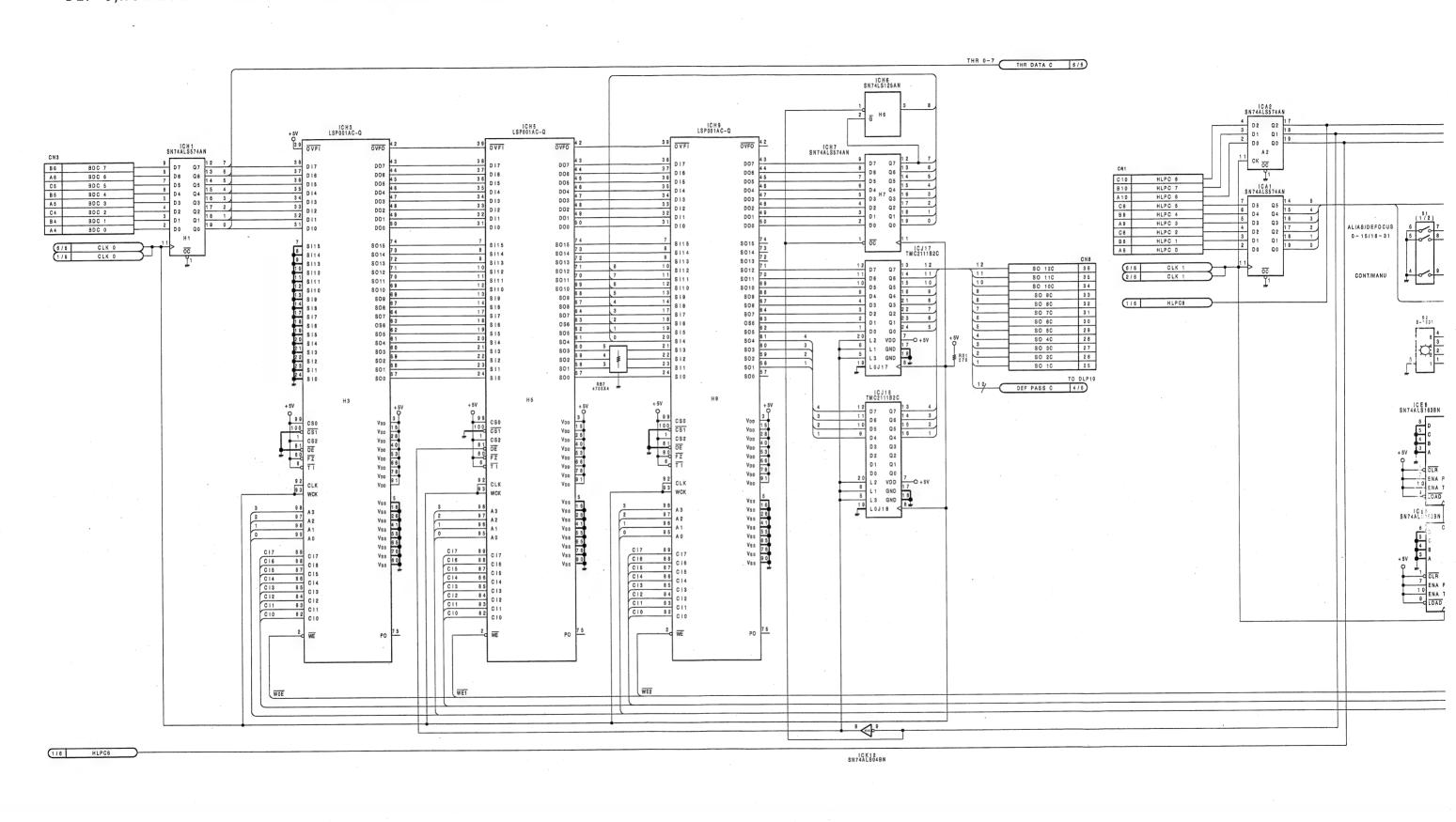
8 - 3 8 8 - 3 7



DLP-9(1/6)

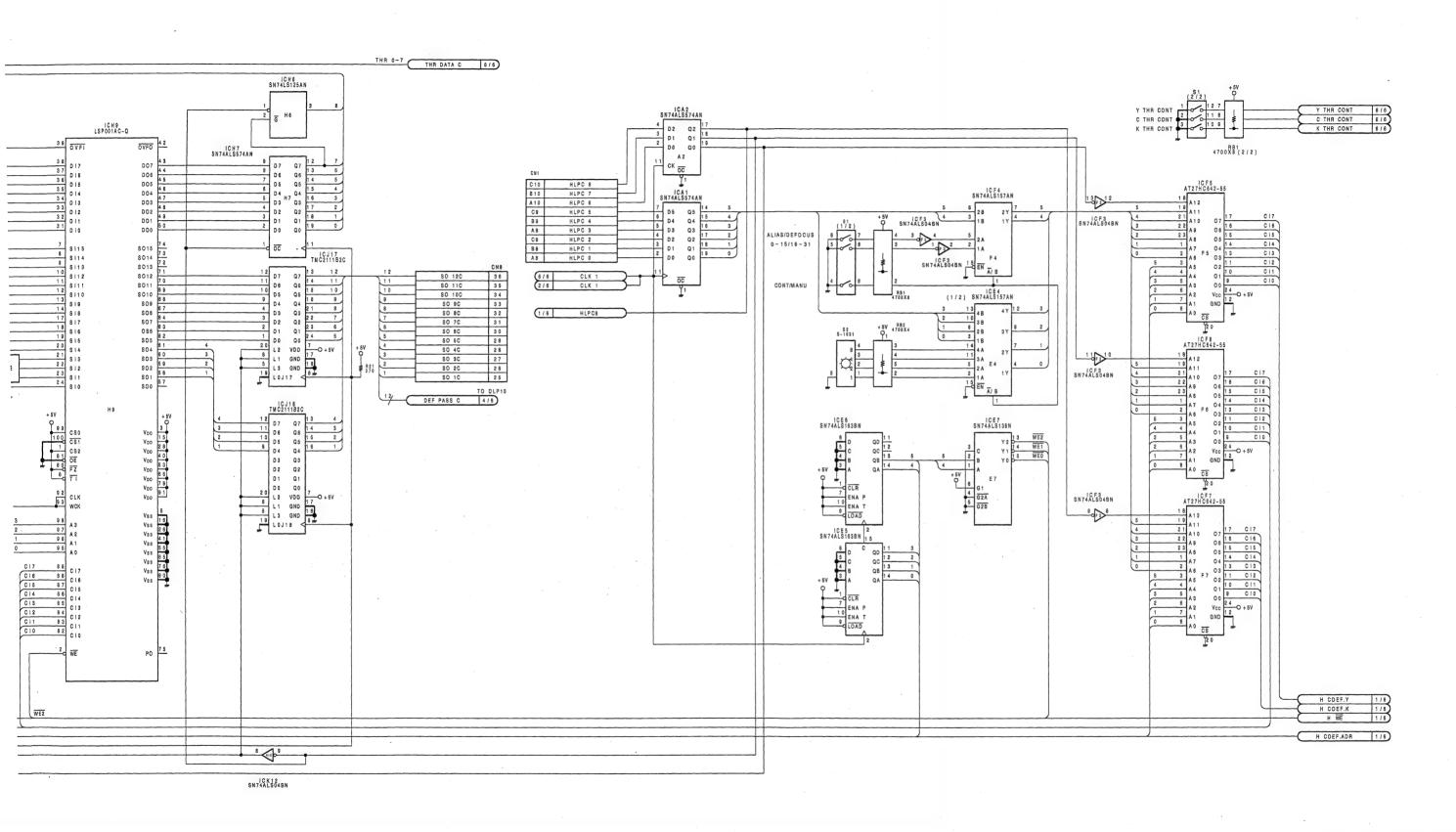
8 - 4 0

8 - 3 9



8-44
B C D E F G H

5



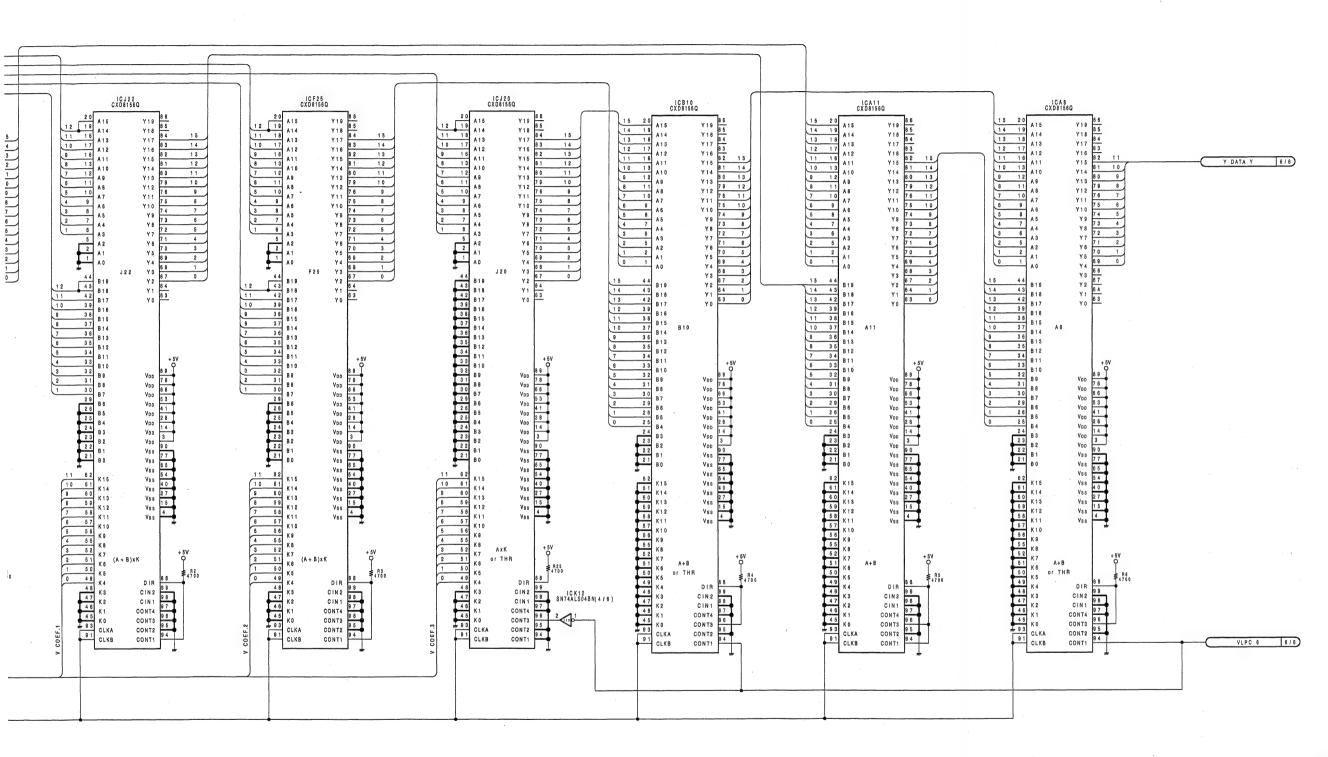
DLP-9(2/6)

8 - 4 5

8 - 4 6

DLP-9;HORIZONTAL AND VERTICAL LOW PASS FILTER

[CNS 8	7 8 07 07 13 11 14 0 17 007 11 1	0 15 015 005 10 10 10 15 015 006 10 10 15 015 005 10 18 005 10 18 015 005 10 18 015 005 10 18 015 005 10 18 015 005 10 18 005 10 18 015 005 10 18 005	10 15 016 008 10 10 10 15 007 11 11 14 018 008 10 10 10 15 008 18 018 018 018 019 12 009 17 007 17 007 18 018 018 018 018 018 018 018 018 018	4 8 21 D14 D04 4 8 3 7 D12 D02 2 6	CJ25 CXD8155Q 20	CJ22 CXD8155Q 12
[3 YDI 2 2 2 YDI 1 1 1 YDI 0 0 FROM DLP10	1 2 D0 Q0 19 5 24 D10 D00 WE RSTW S RE RSTR STR RCK B26 T4F574PC 10CC24 F PD42791C-3	10 10 D00 1 20 11 D00 1 S RE RSTW 18 S RCK C26	S 24 D11 D01 5 24 D10 D00	9 2 0 10 D00 19 8 8 8 7 WCK E26	8 11 A8 Y12 78 10 4 9 A8 Y12 76 9 3 8 A5 Y10 75 8 2 77 A4 Y8 77 73 6 72 75 73 6 72 75 74 7 1 6 A3 Y7 75 8 2 A2 Y6 72 5 71 4 70 3 44 70 3 44 70 3 45 72 70 3 66 2 88 1	7 12 AB
		7 06 06 14 2 23 012 002 2	1 1 1 0 1 0 1 0 1 0 1 0 1 0 0 1 0 1 0 0 1 0 1 0 0 1 0 1 0 0 1 1 0 1 0 1 1 0 1 1 0 1	1 16 D17 D07	3 3 14 2 2 15 1 1 16 D 15 205 1 1 06 D 14 D 04	12 43 818 Y1 63 11 42 817 Y0 63 11 42 817 Y0 63 818 Y1 64 818 Y1 65 Y0 65 Y1 7 38 818 Y1 7 8 818 Y1 8 918 Y1 8	11 42 B17 Y0 03 B16 B18 B18 B18 B18 B14
	10 DEF PASS Y	1CJ18 74F574PC 12 8 D7 O7 12 12 12 11 8 D8 D8 14 10 8 8 6 D4 18 16 18 8	RCK	nun .		2 8 B 8 VD 5 3 4 1	3 32 88 Vop 78 89 70 1 4
	SN74ALS04BN Z	1 1 7 4 03 03 17 7 6 6 3 D1 01 19 5 00 19 6 00				5 58 K9 K9 K9	6 57 K10 5 56 K8 4 55 K8 3 52 K7 2 51 K8 (A+B)xK 1 50 K5
	(8/6 DEF PASS CONT)	1 6 04 K16 Q4 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				48 K3 CIN2 47 K2 CIN1 46 K1 CONT4 45 K0 CONT3 97 CLKA CONT5 98 B9 97 B1 CLKB CONT1	48 K3 CIN2 47 K2 CIN1 46 K1 CONT4 45 K0 CONT3 91 CLKA CONT2 91 CLKB CONT1
	5/8 V COEF.0~3 6/6 V COEF.0~3	•					

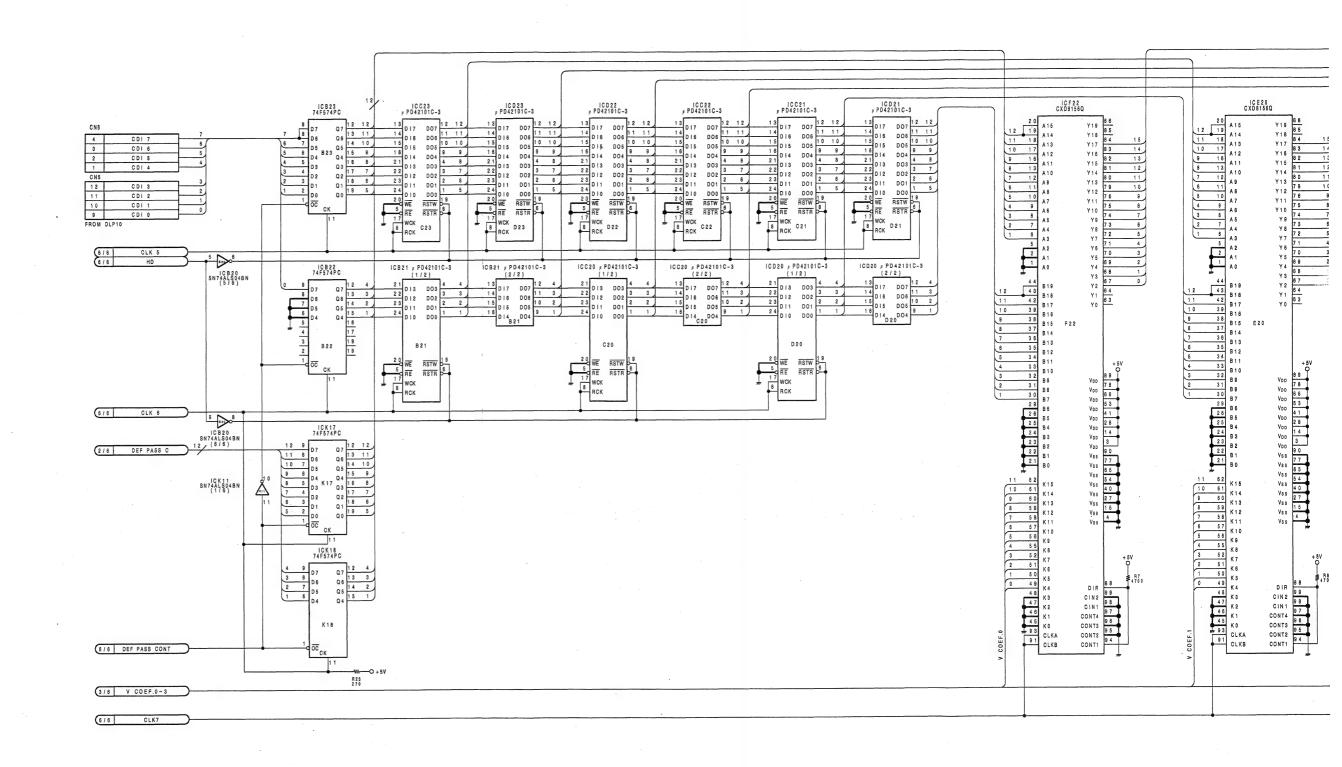


 $\begin{array}{c} D L P - 9 (3/6) \\ {}^{1-636-817-11} {}^{0} D M E - 5000 (J,UC) \end{array}$

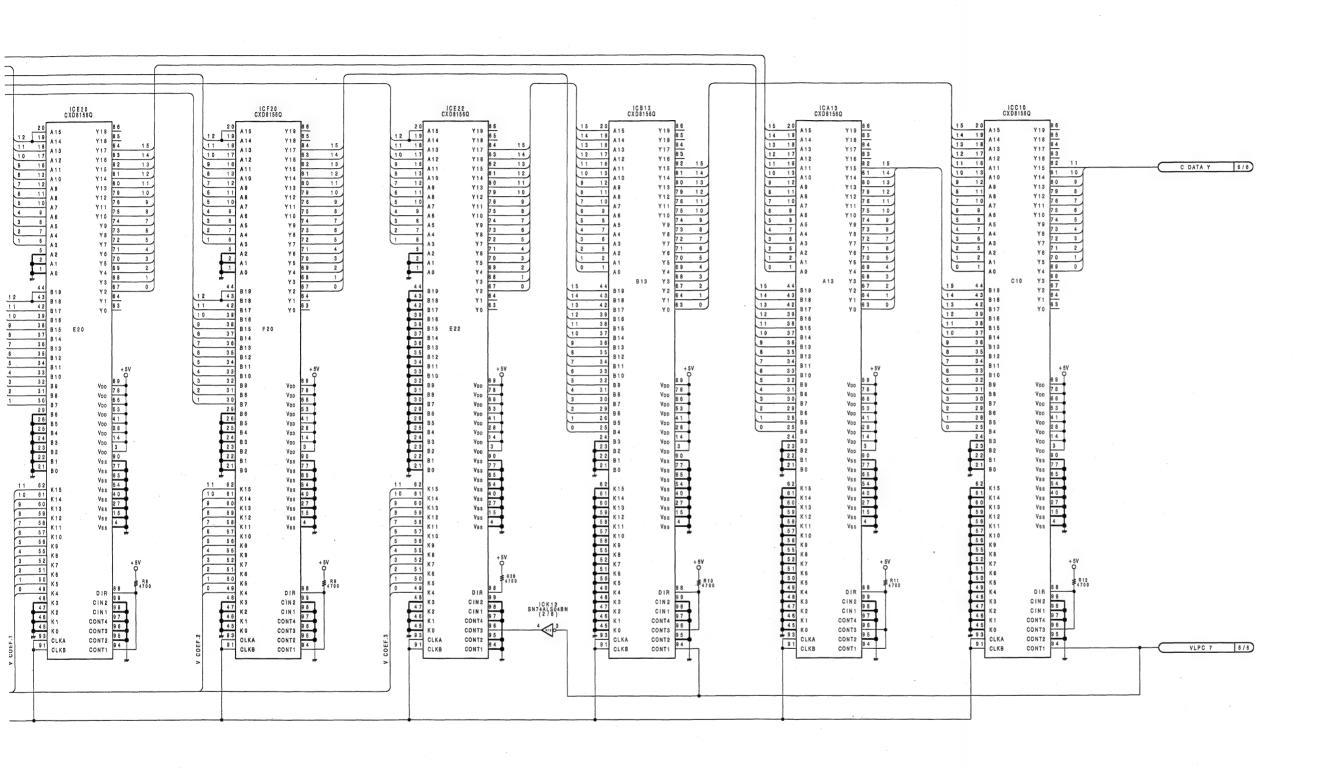
8 - 53

8 - 5 4

DLP-9; HORIZONTAL AND VERTICAL LOW PASS FILTER



8 - 5 9



DLP-9(4/6)

8 - 6 1

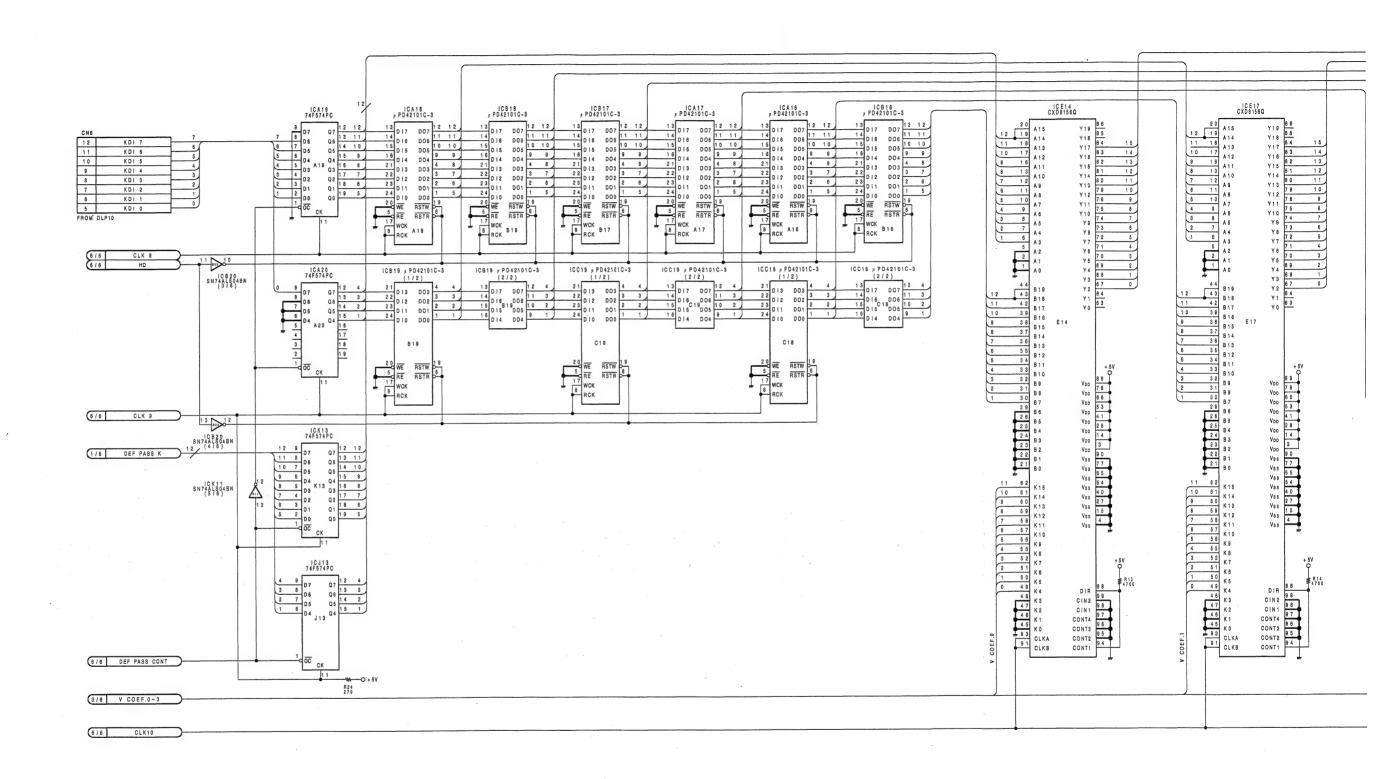
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8 - 62

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DLP-9:HORIZONTAL AND VERTICAL LOW PASS FILTER

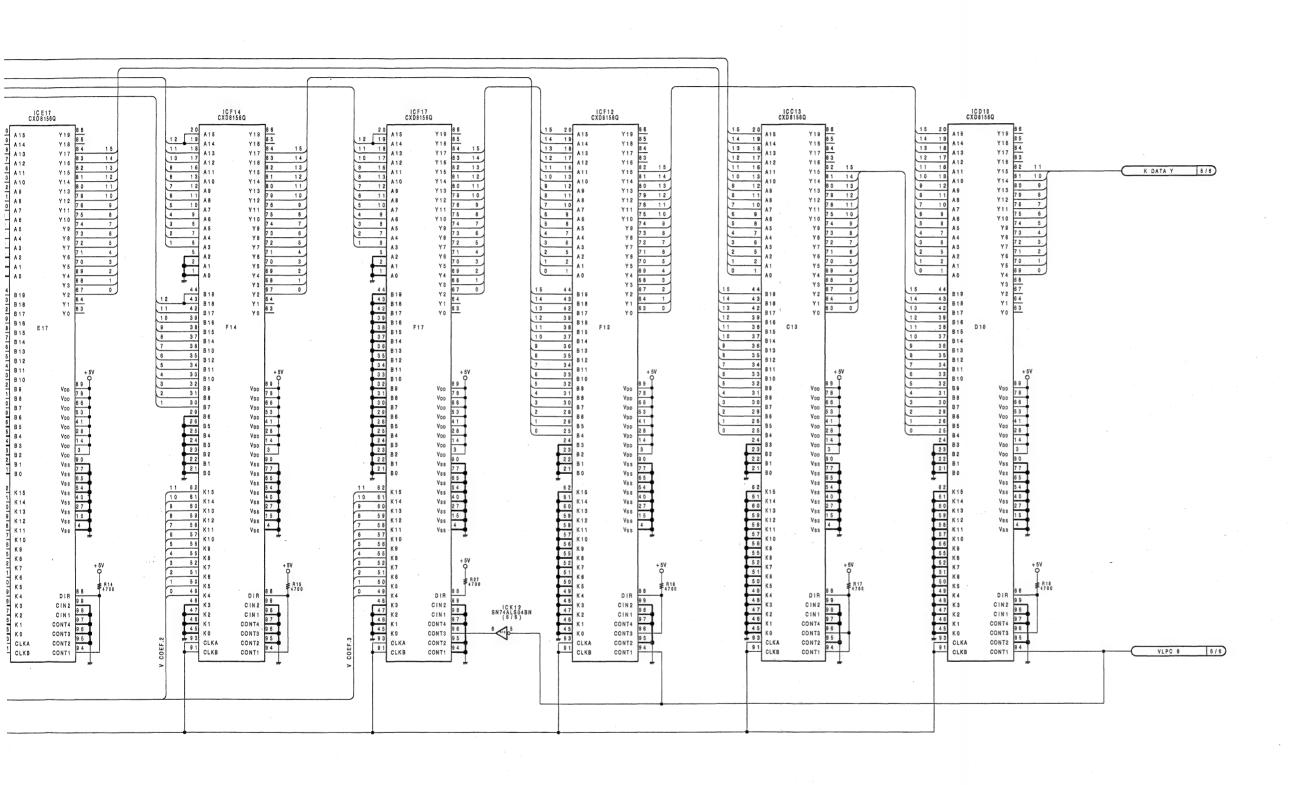


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DLP-9(5/6)

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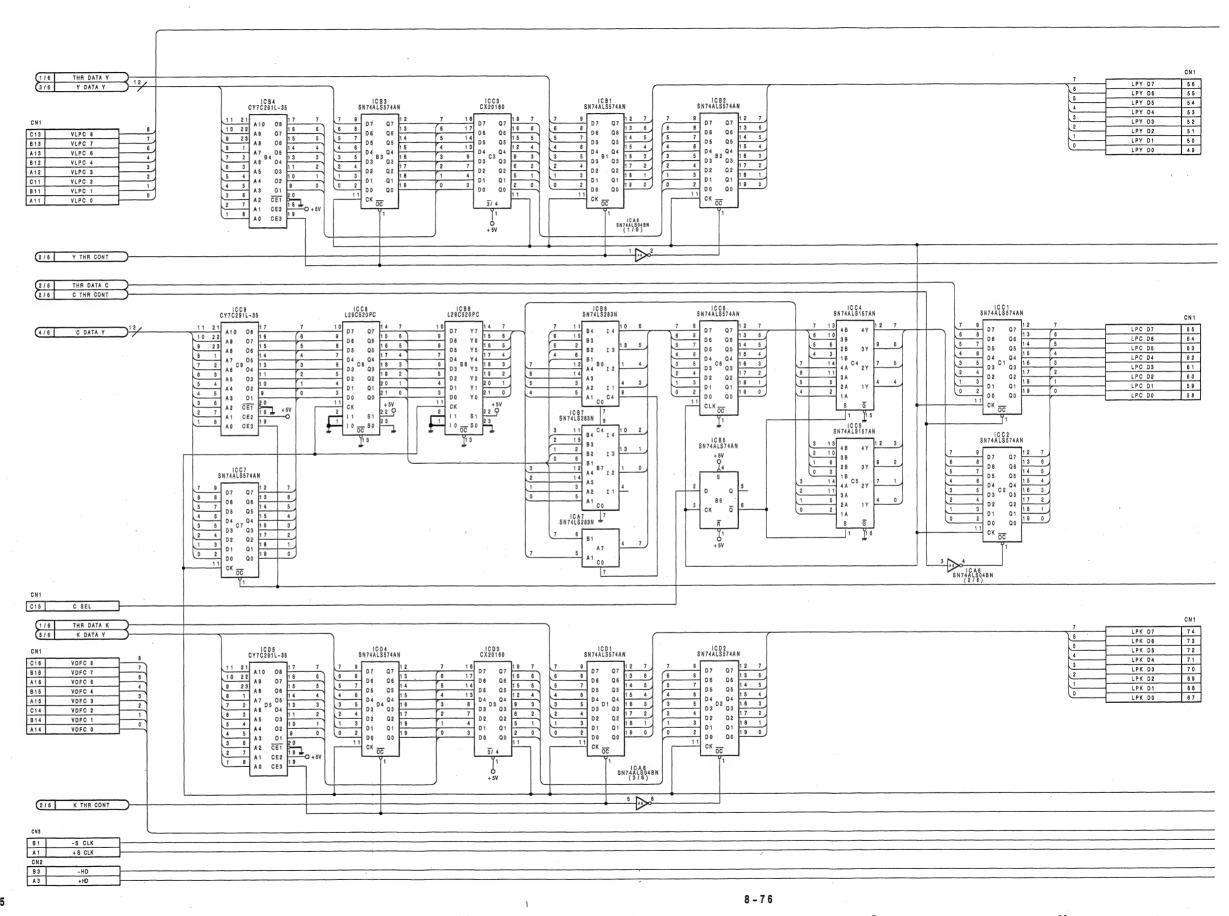
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DLP-9; HORIZONTAL AND VERTICAL LOW PASS FILTER



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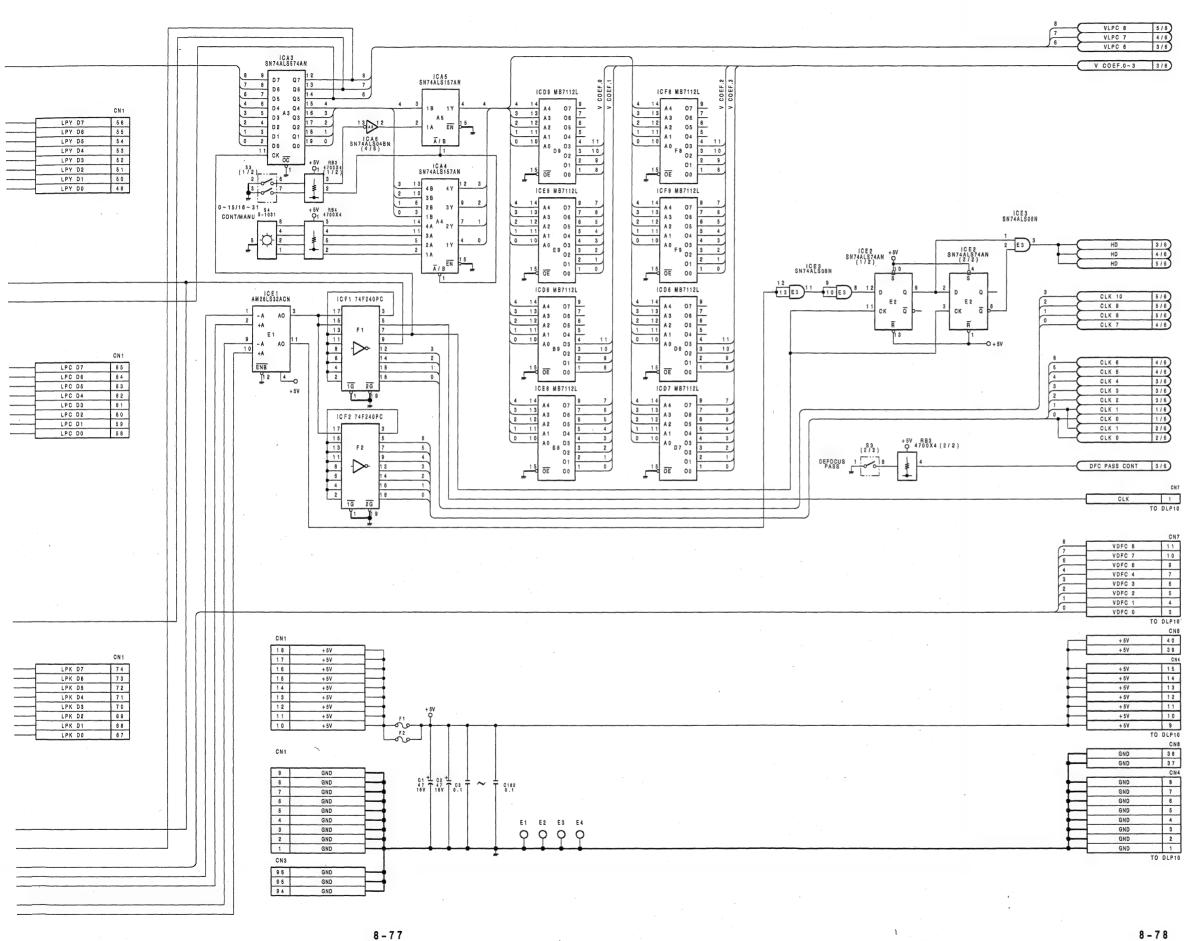
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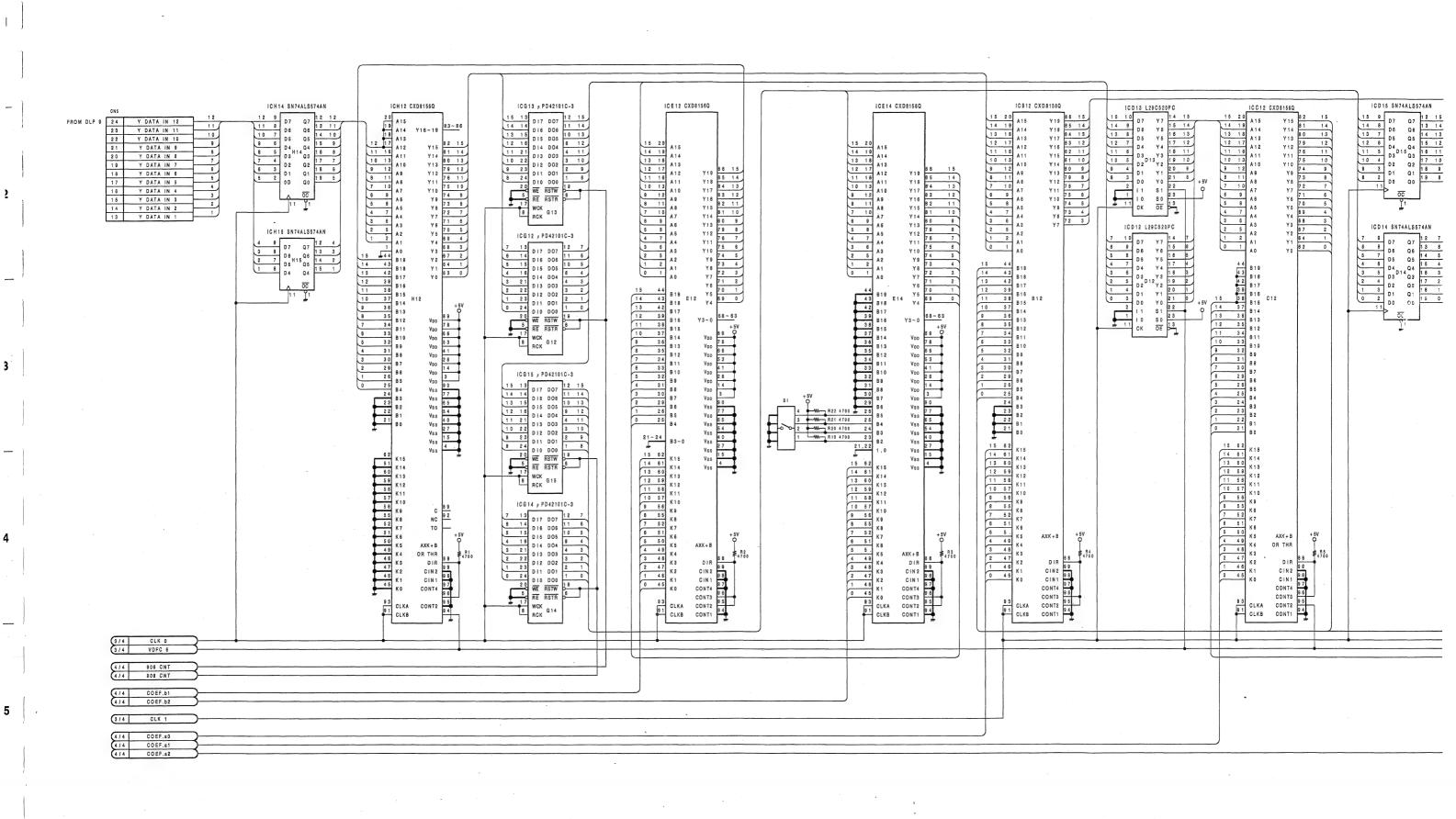


DLP-9(6/6)

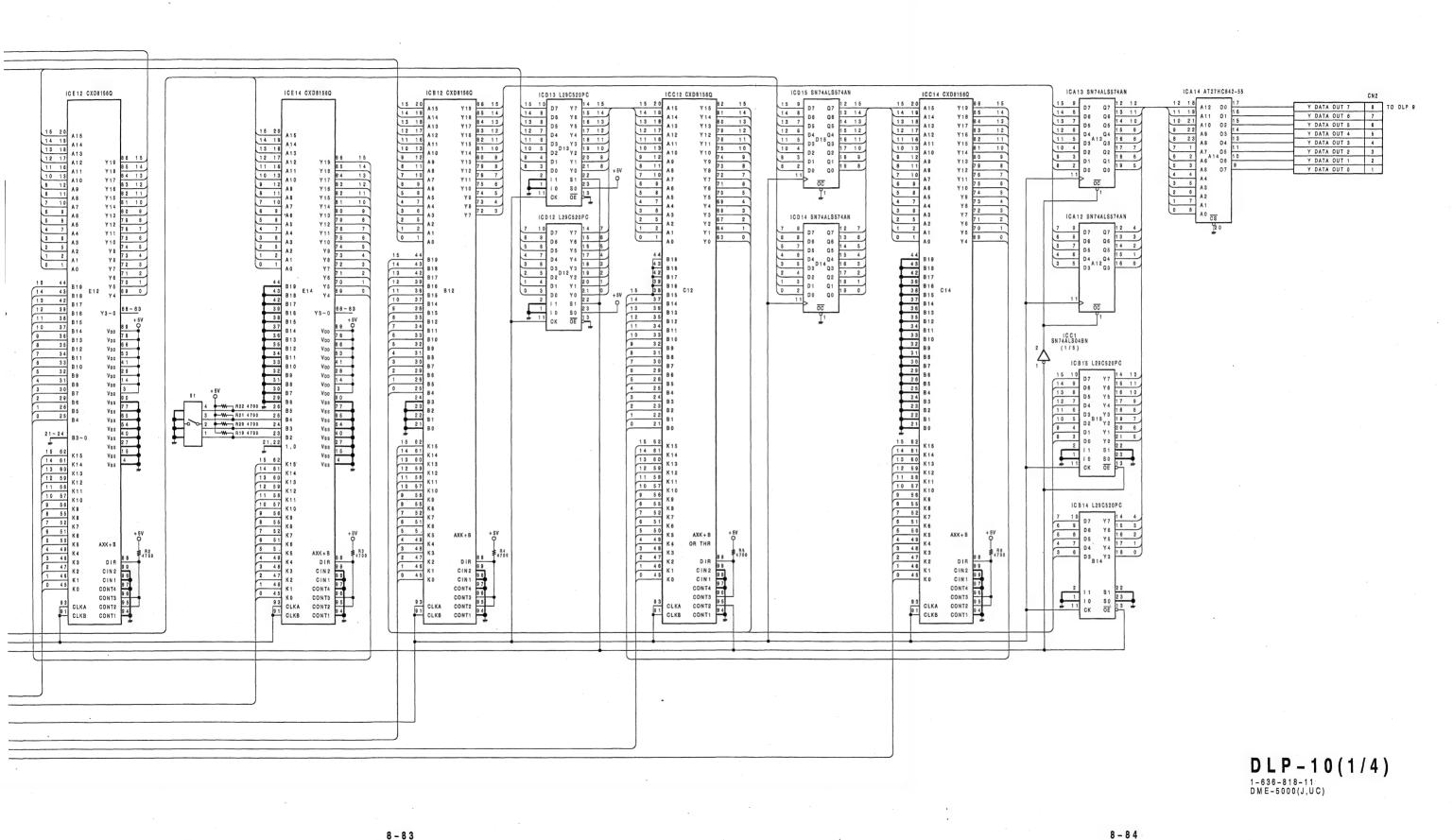
8 - 78

DLP-10: IIR VERTICAL LOW PASS FILTER

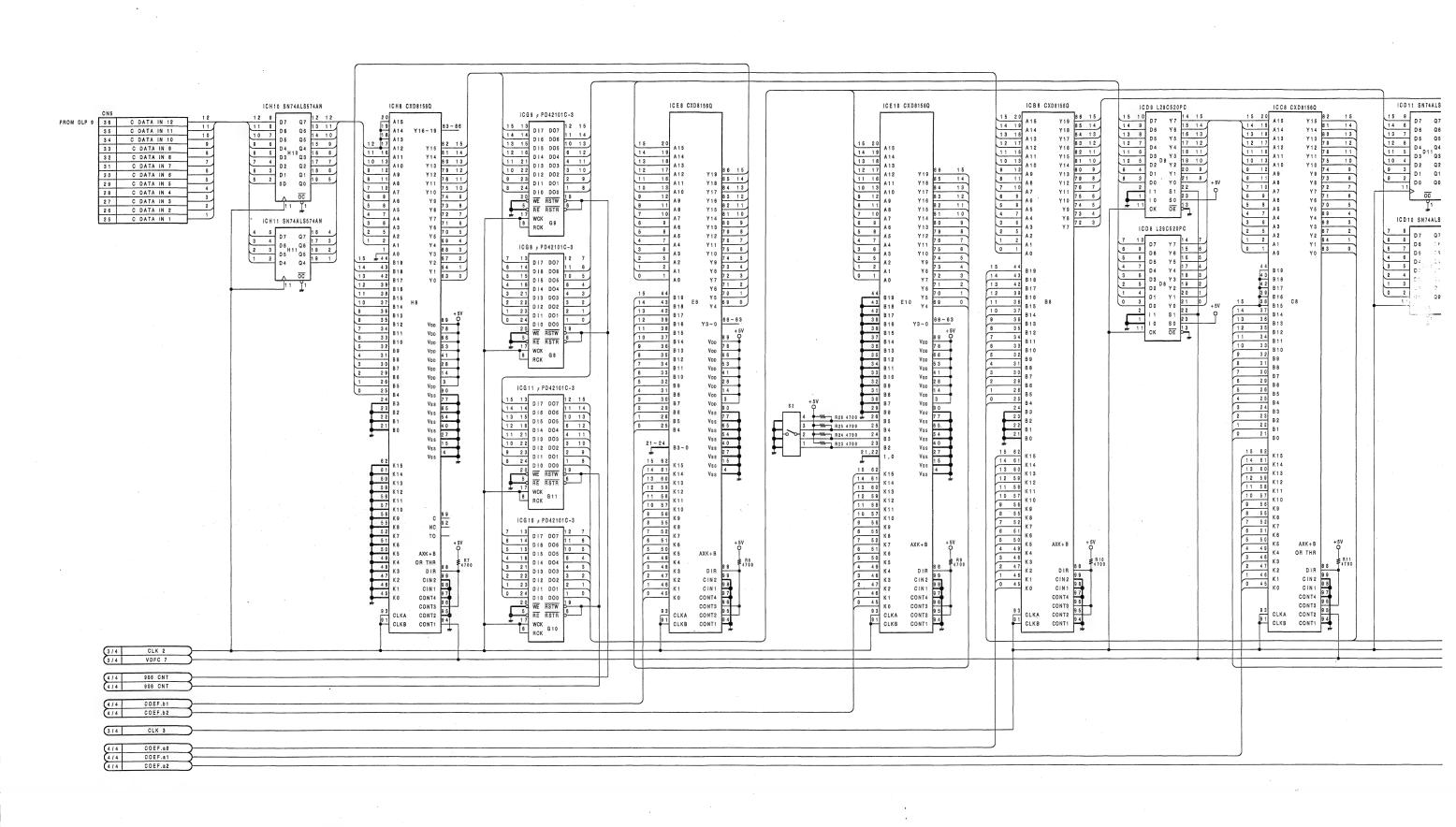
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8 - 8 3



DLP-10; IIR VERTICAL LOW PASS FILTER



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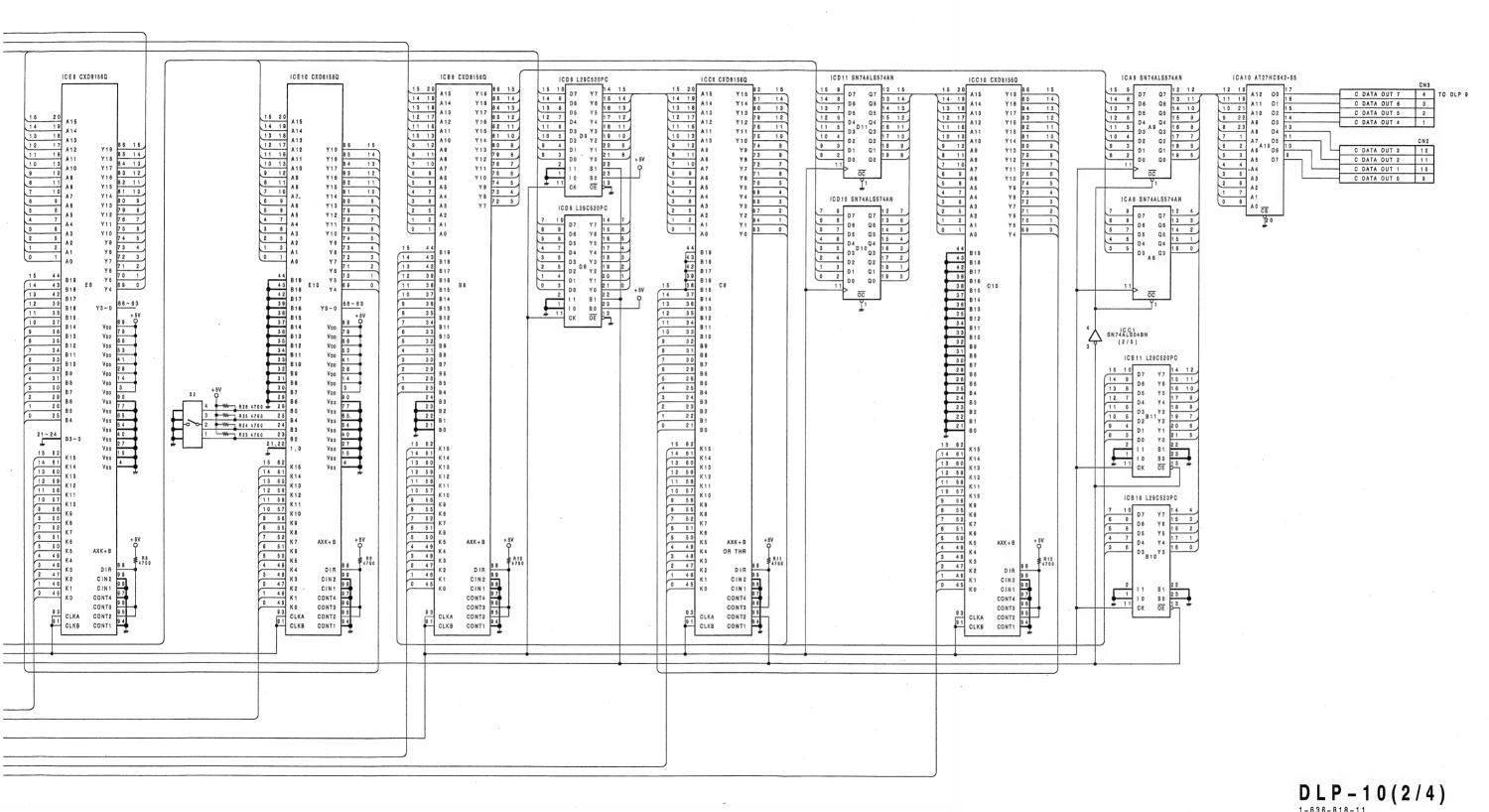
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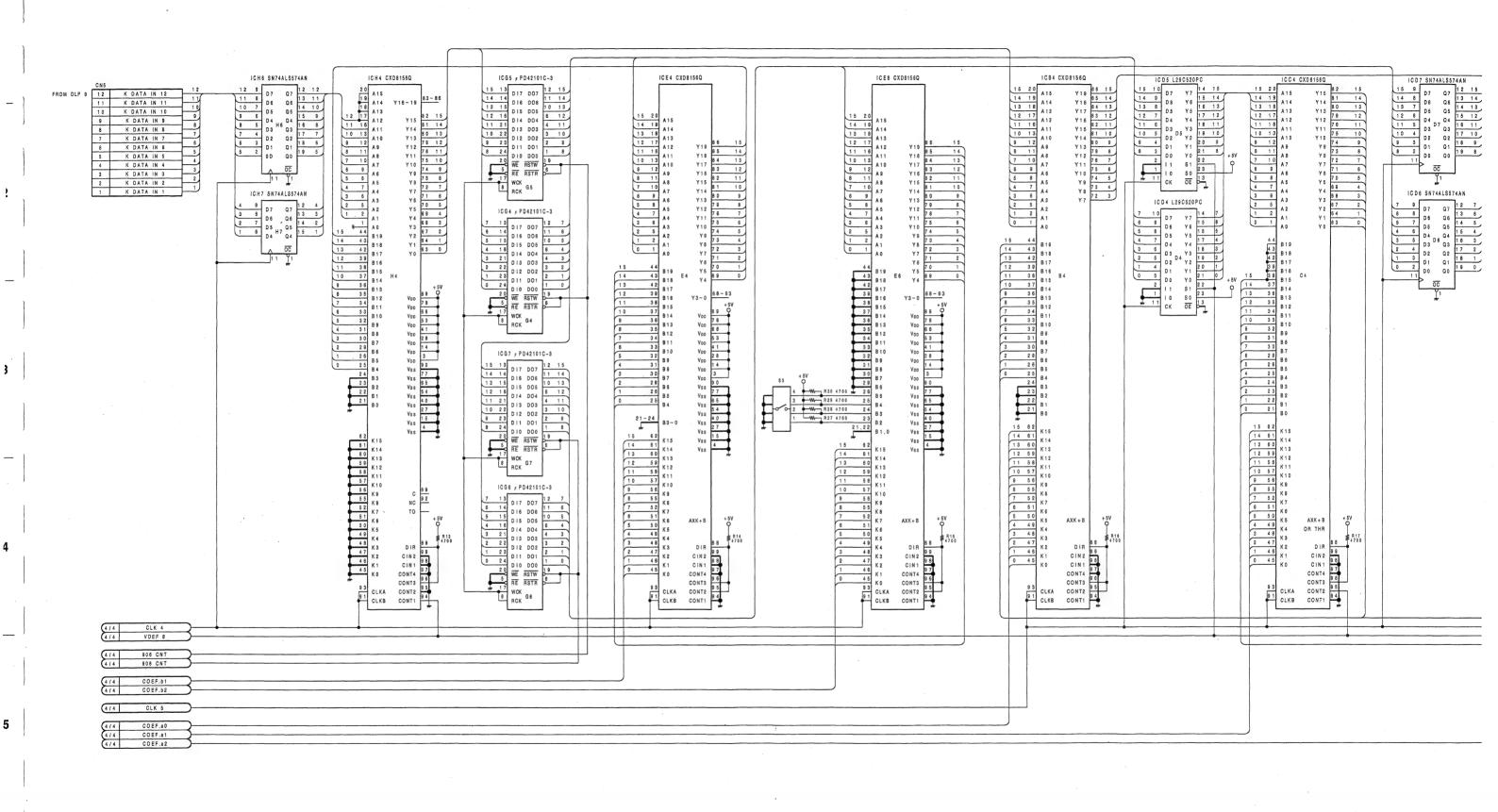
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8 - 9 0

DLP-10: IIR VERTICAL LOW PASS FILTER



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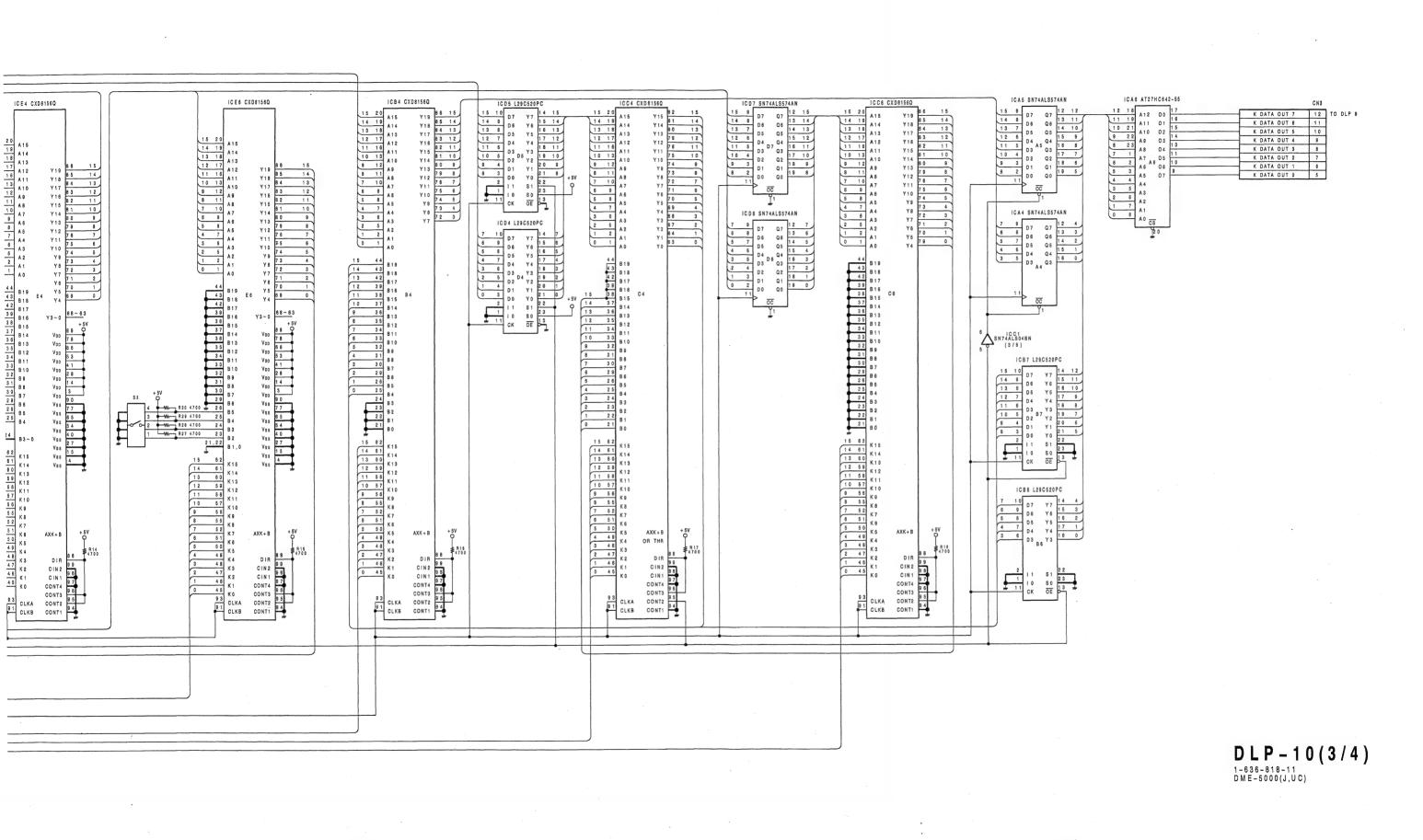
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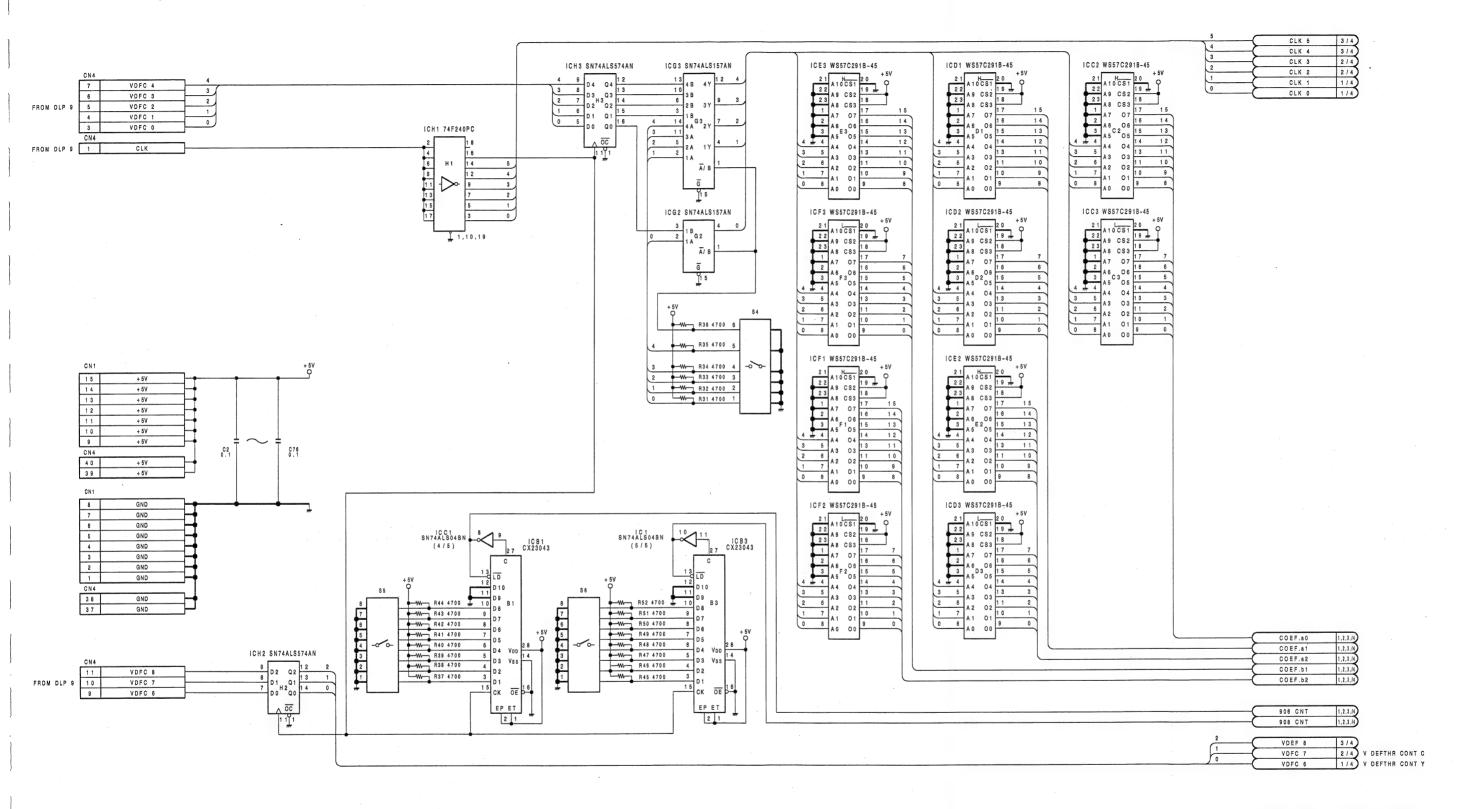
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DLP-10: IIR VERTICAL LOW PASS FILTER



DLP-10(4/4)

1-636-818-11 DME-5000(J,UC)

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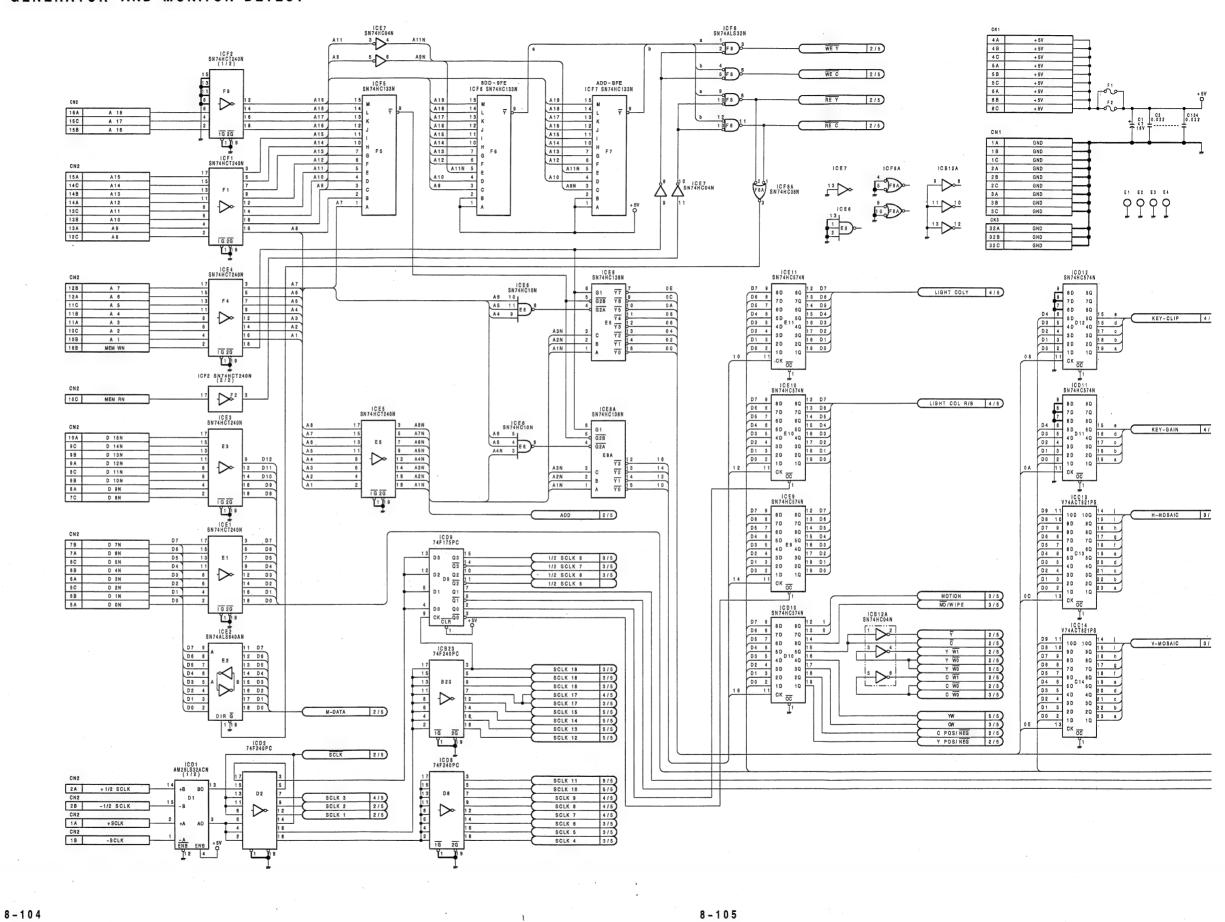
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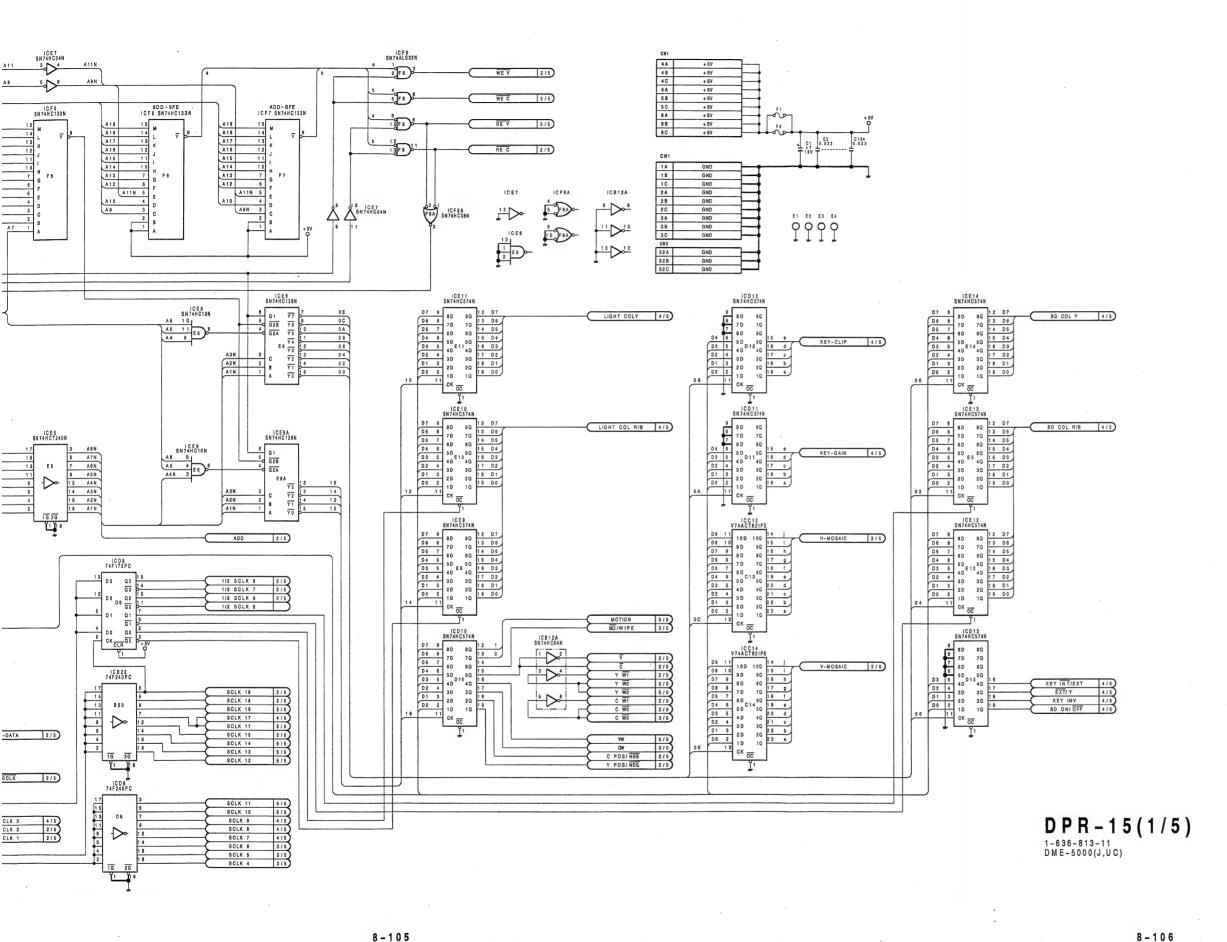
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DPR-15:INPUT PIXEL EFFECT GENERATOR AND MONITOR DETECT

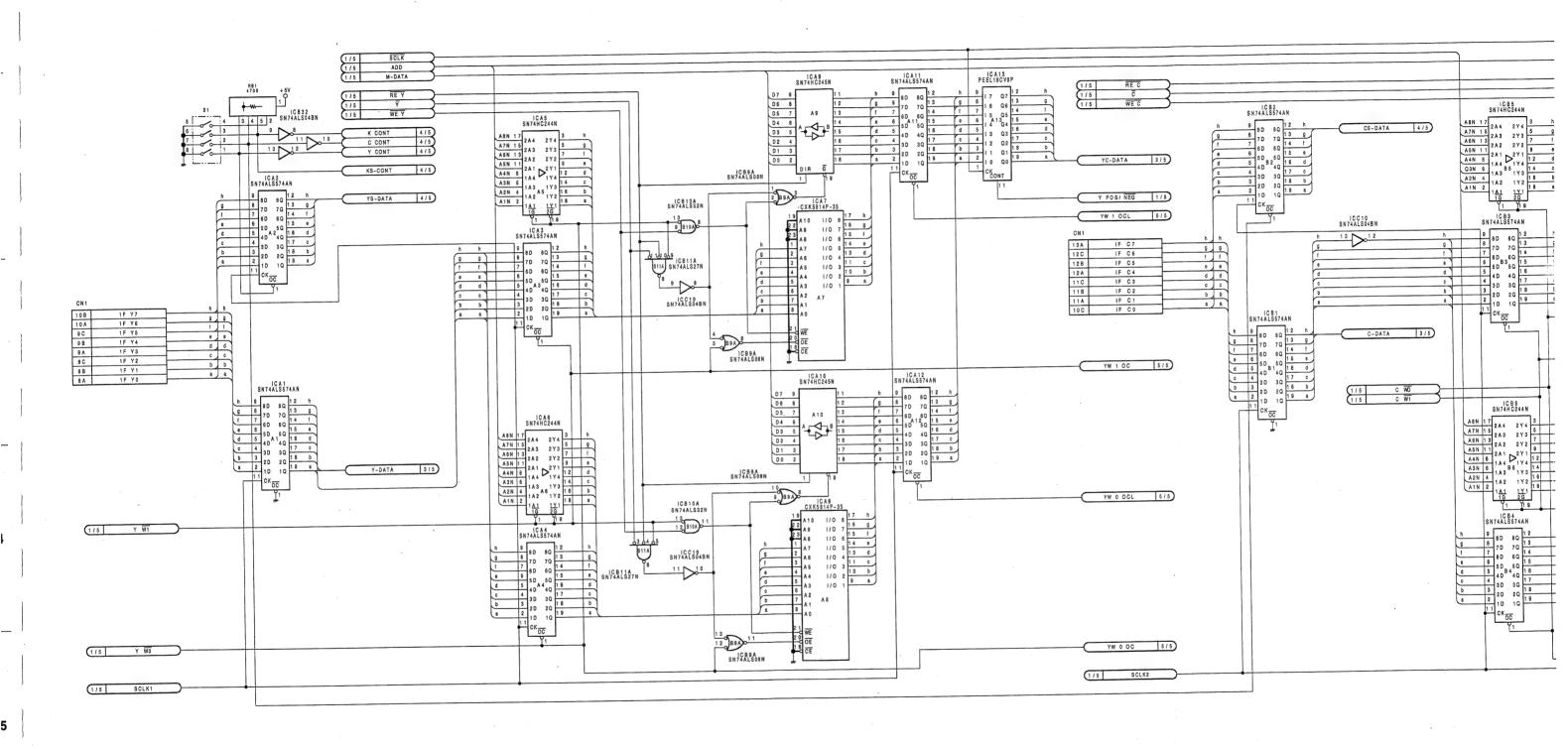




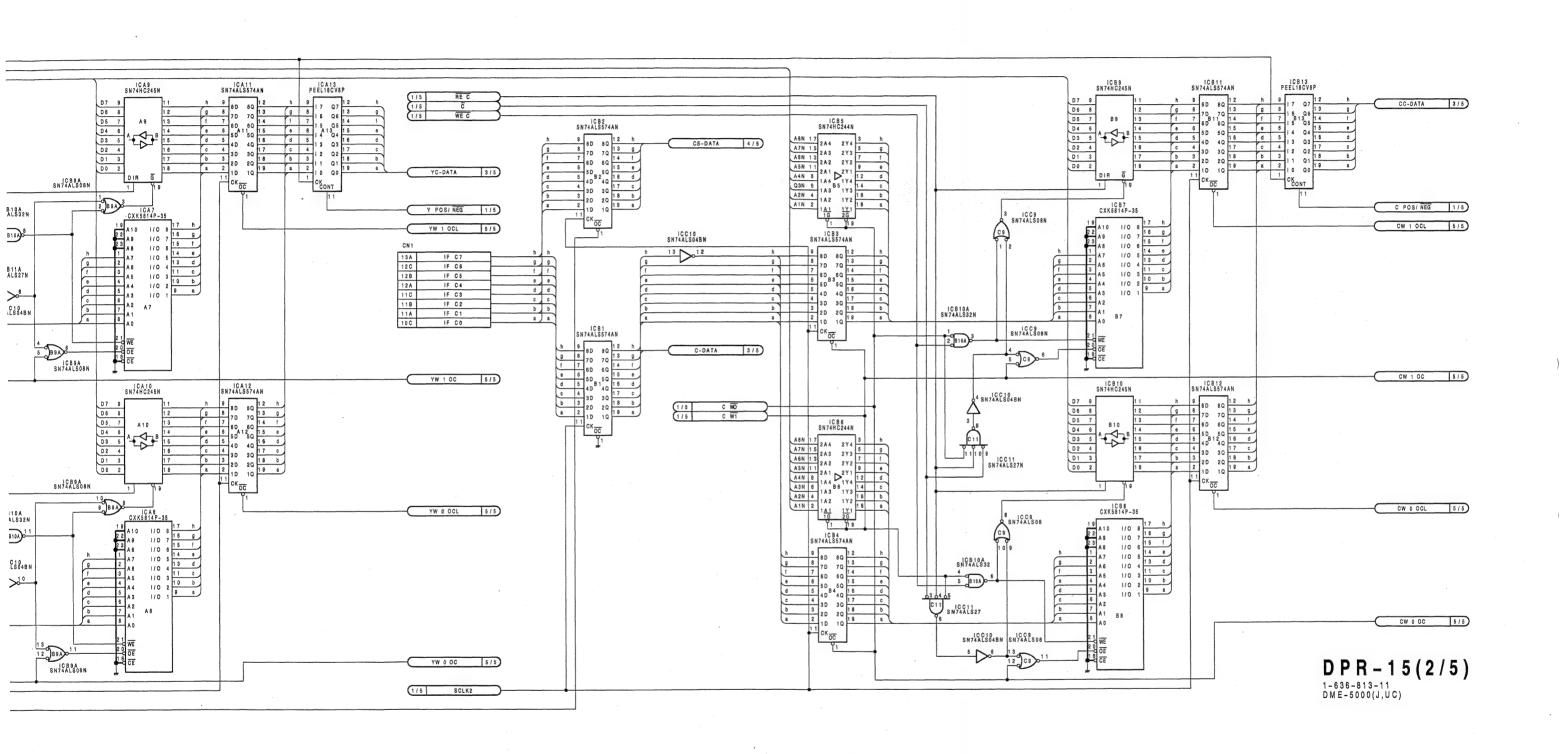
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DPR-15; INPUT PIXEL EFFECT GENERATOR AND MONITOR DETECT



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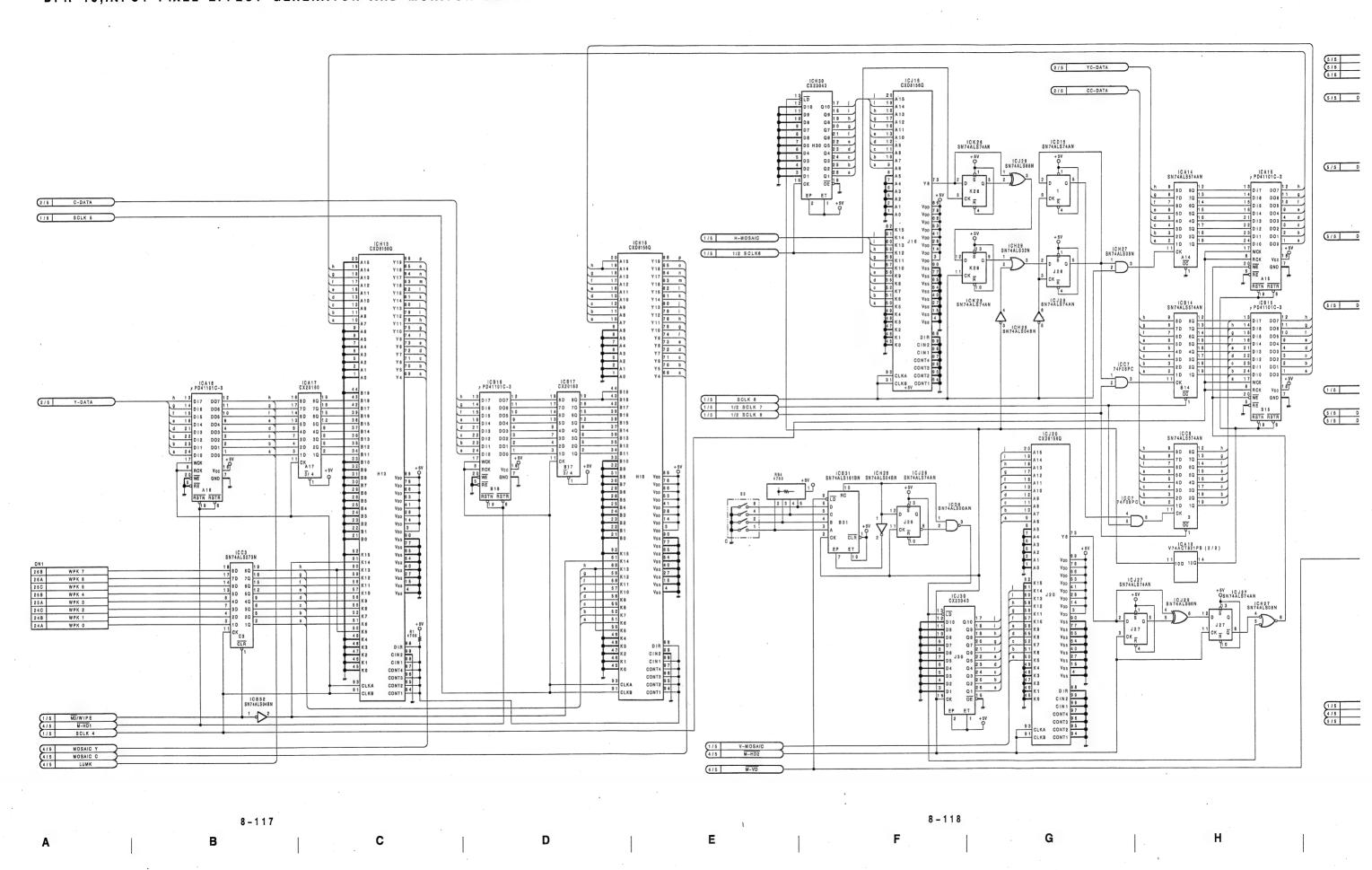
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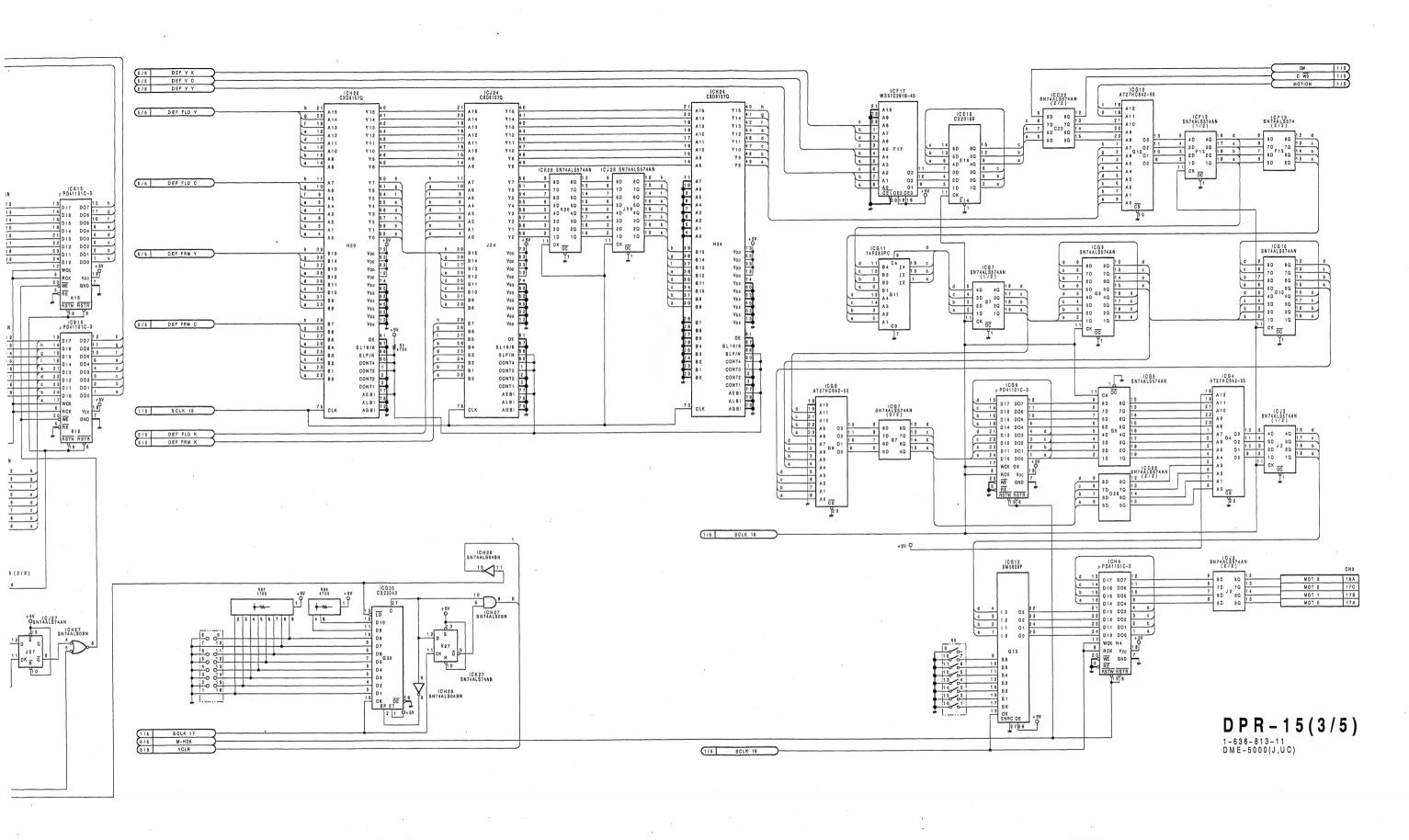
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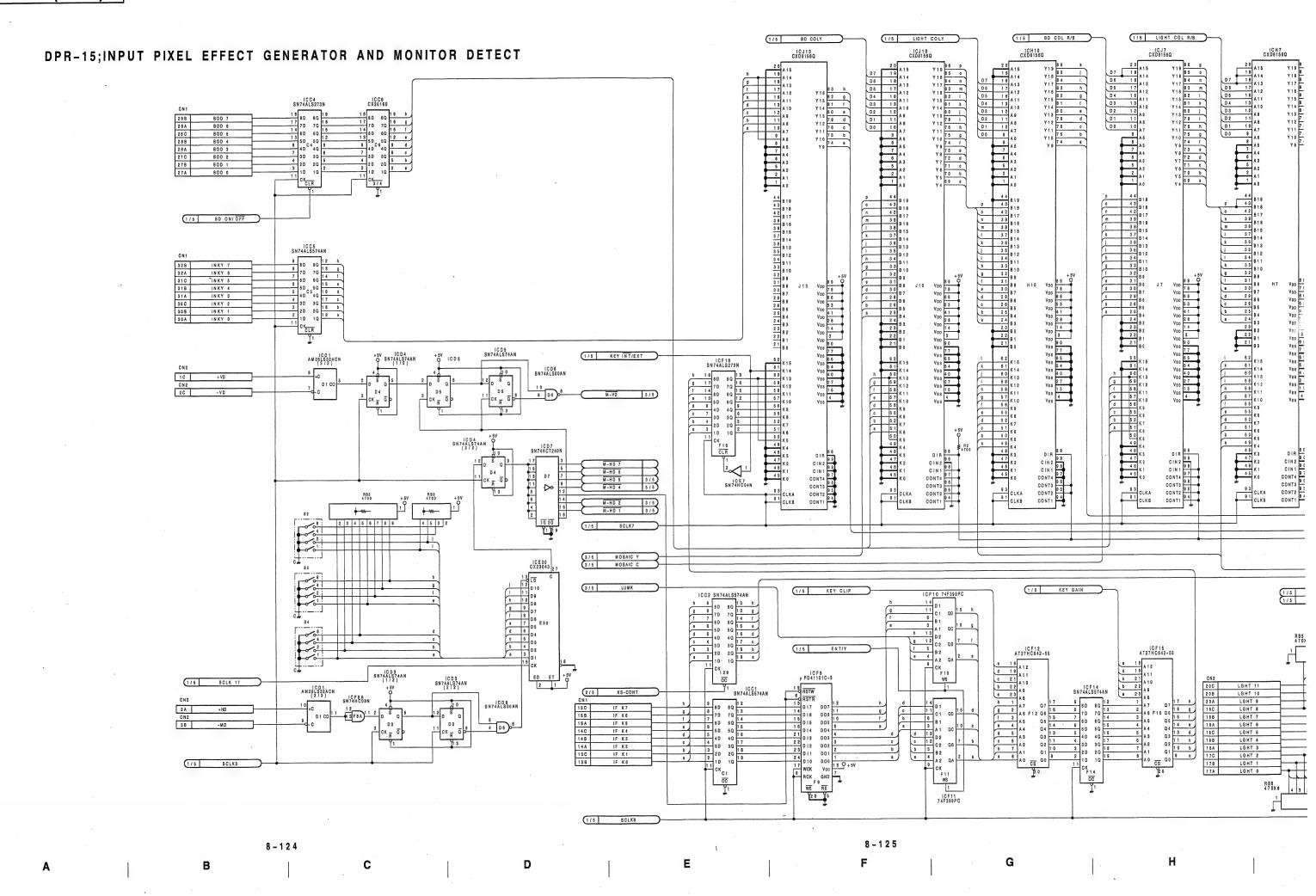
DPR-15; INPUT PIXEL EFFECT GENERATOR AND MONITOR DETECT

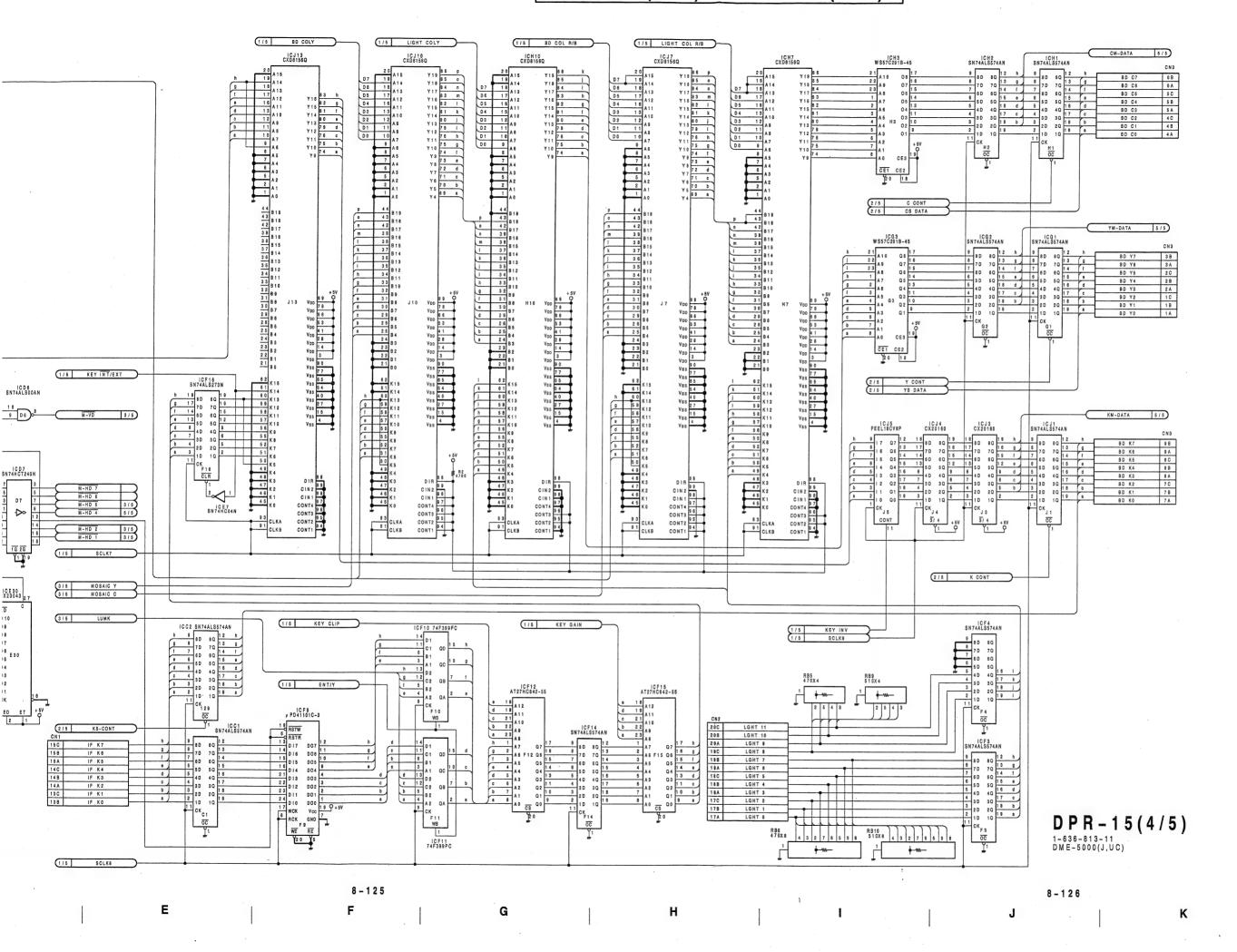




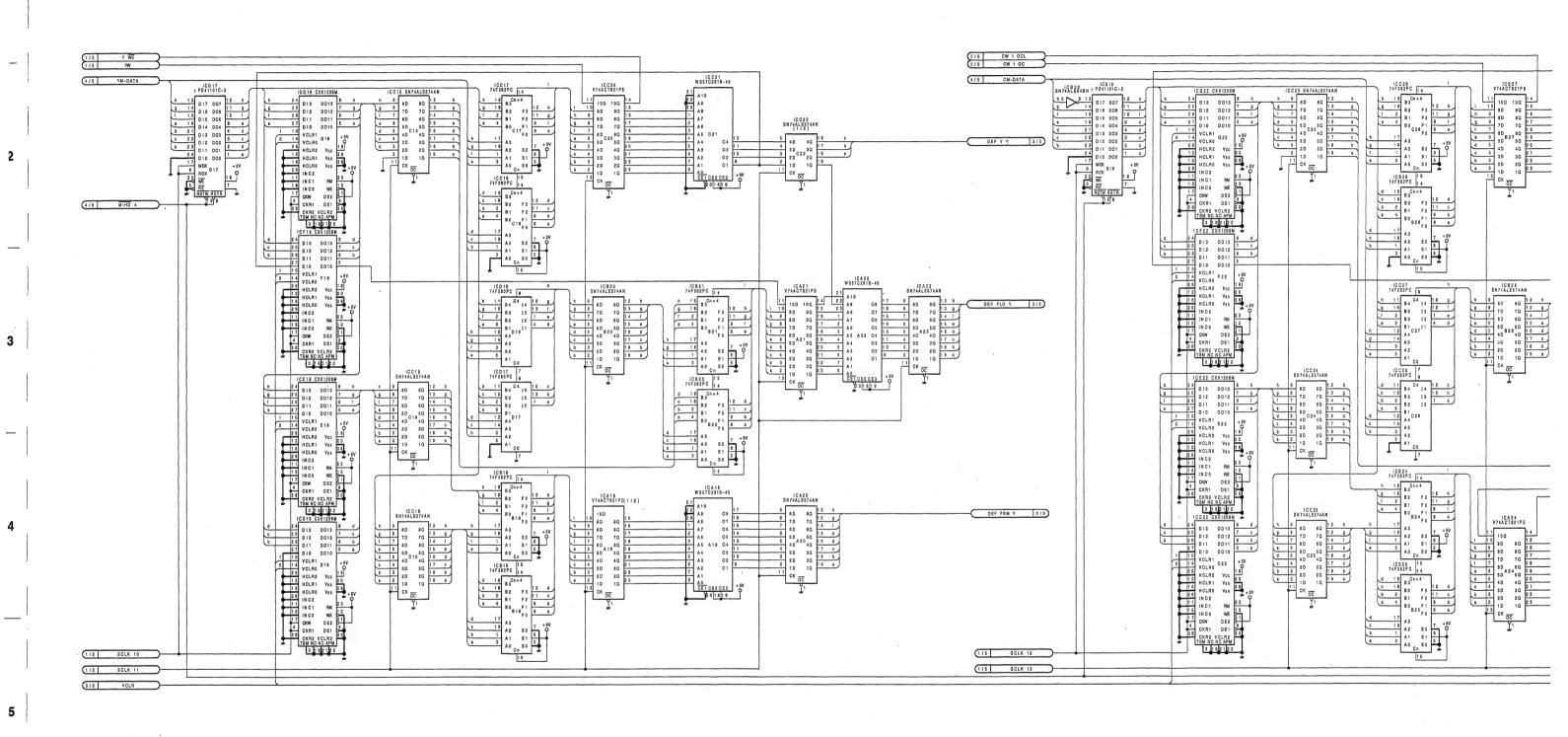
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8-119





DPR-15; INPUT PIXEL EFFECT GENERATOR AND MONITOR DETECT



8 - 131

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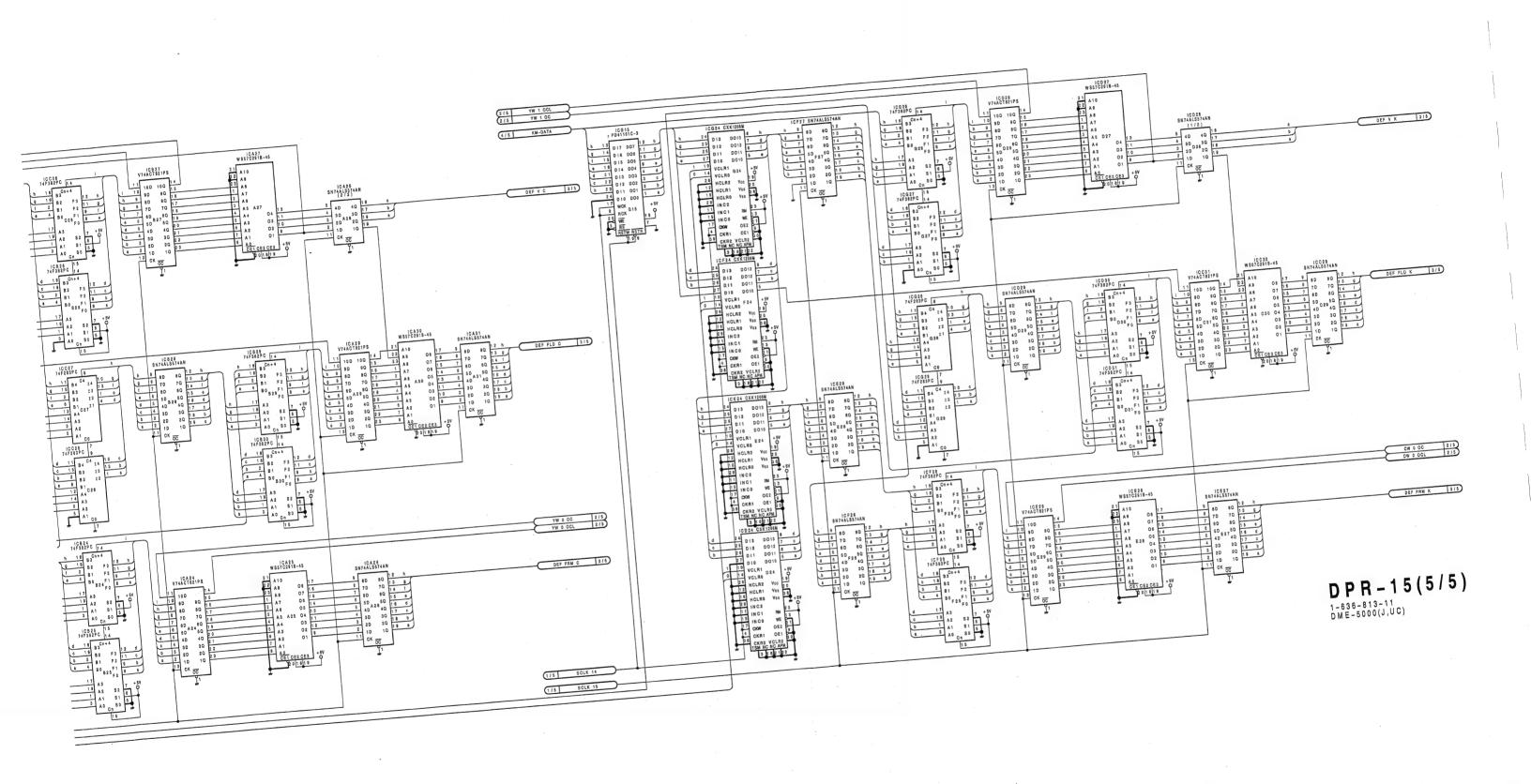
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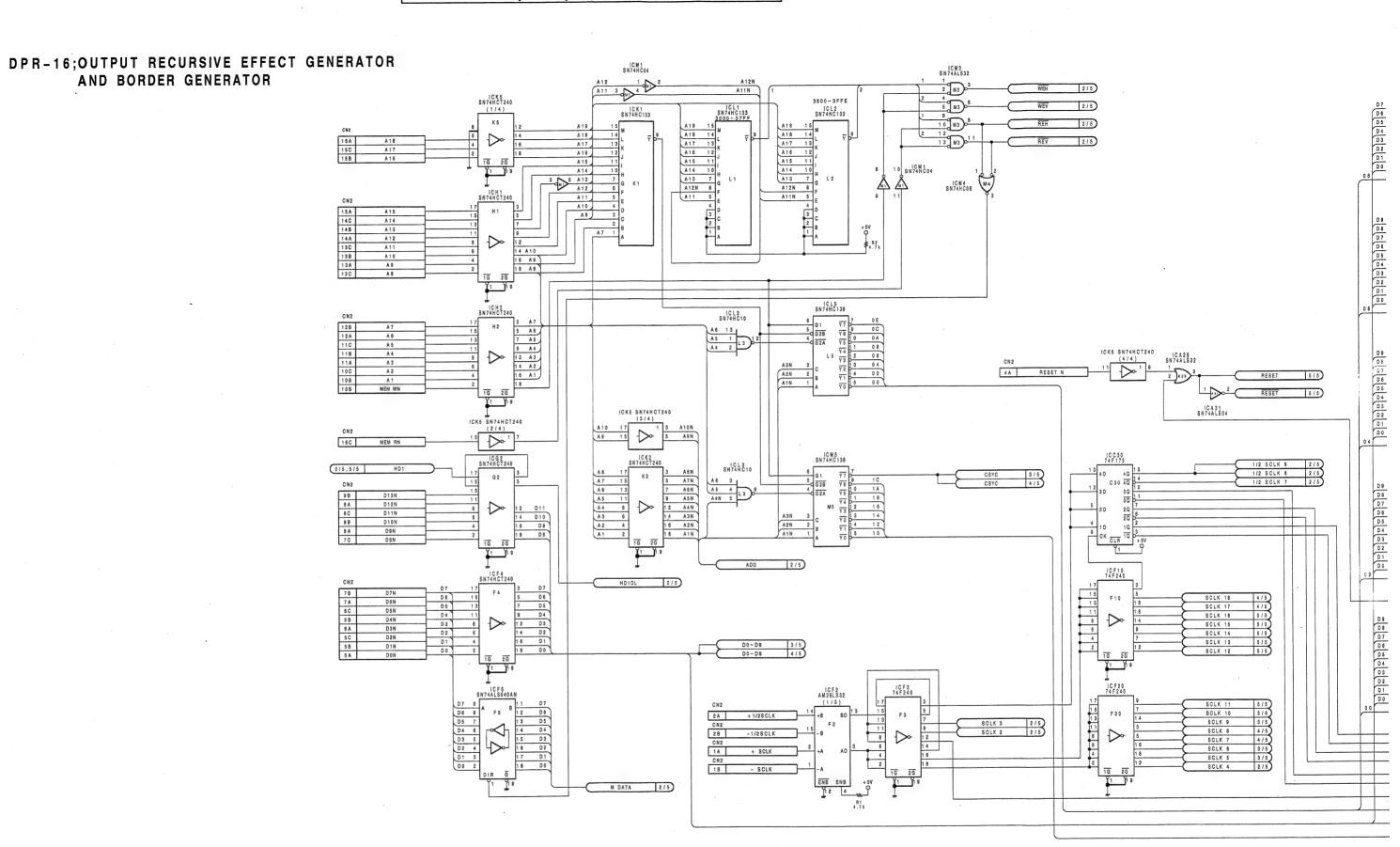
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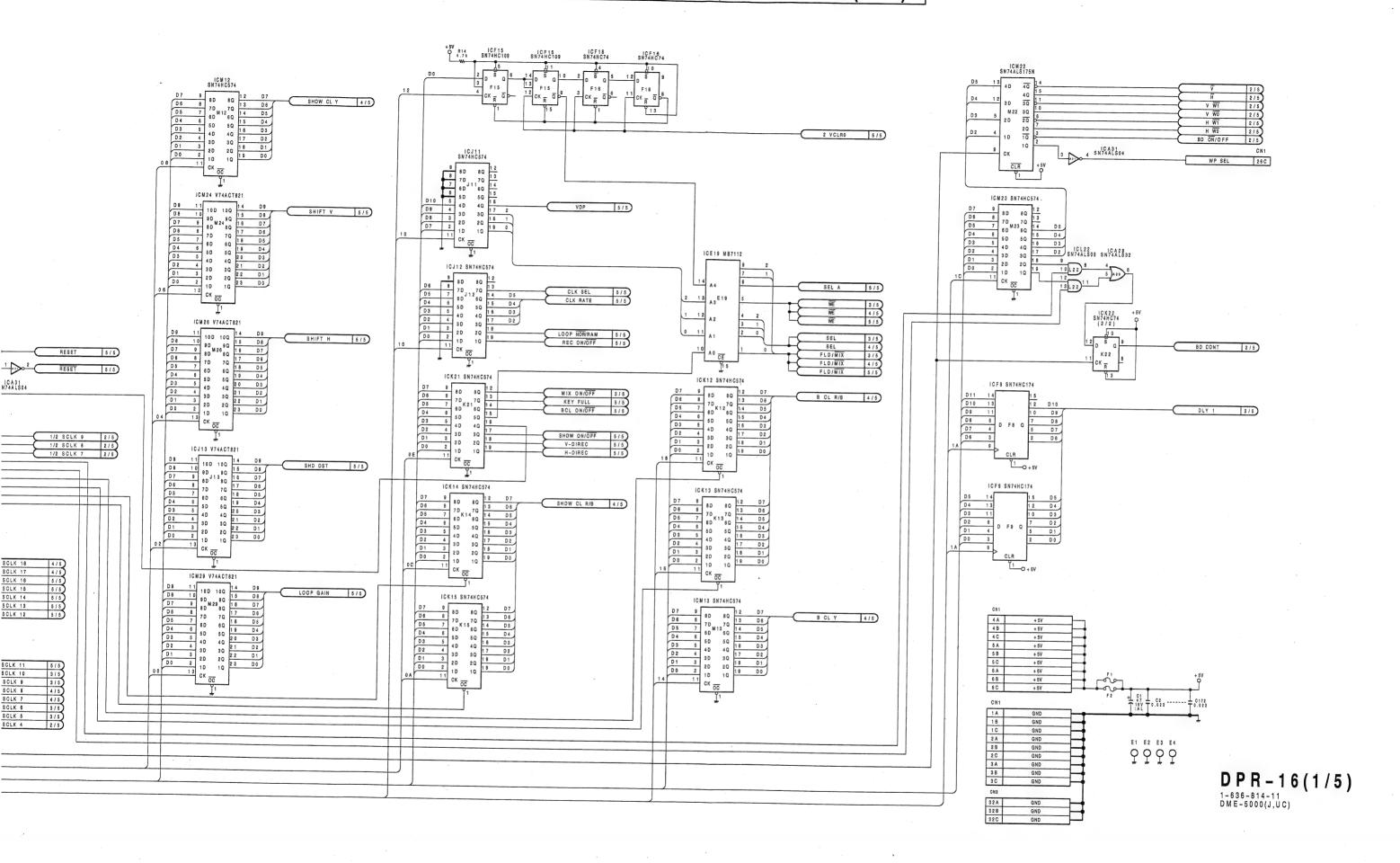
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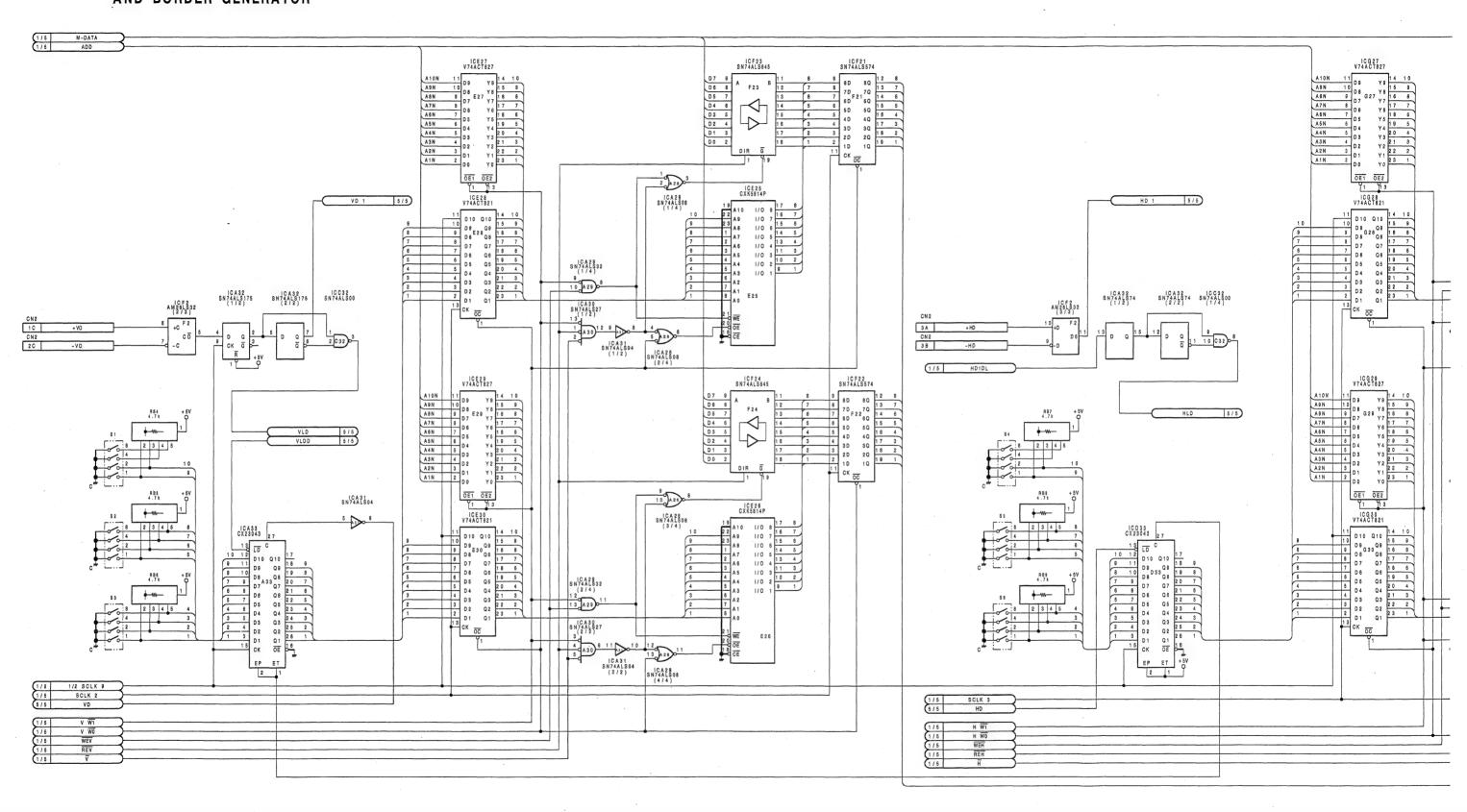
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DPR-16;OUTPUT RECURSIVE EFFECT GENERATOR AND BORDER GENERATOR



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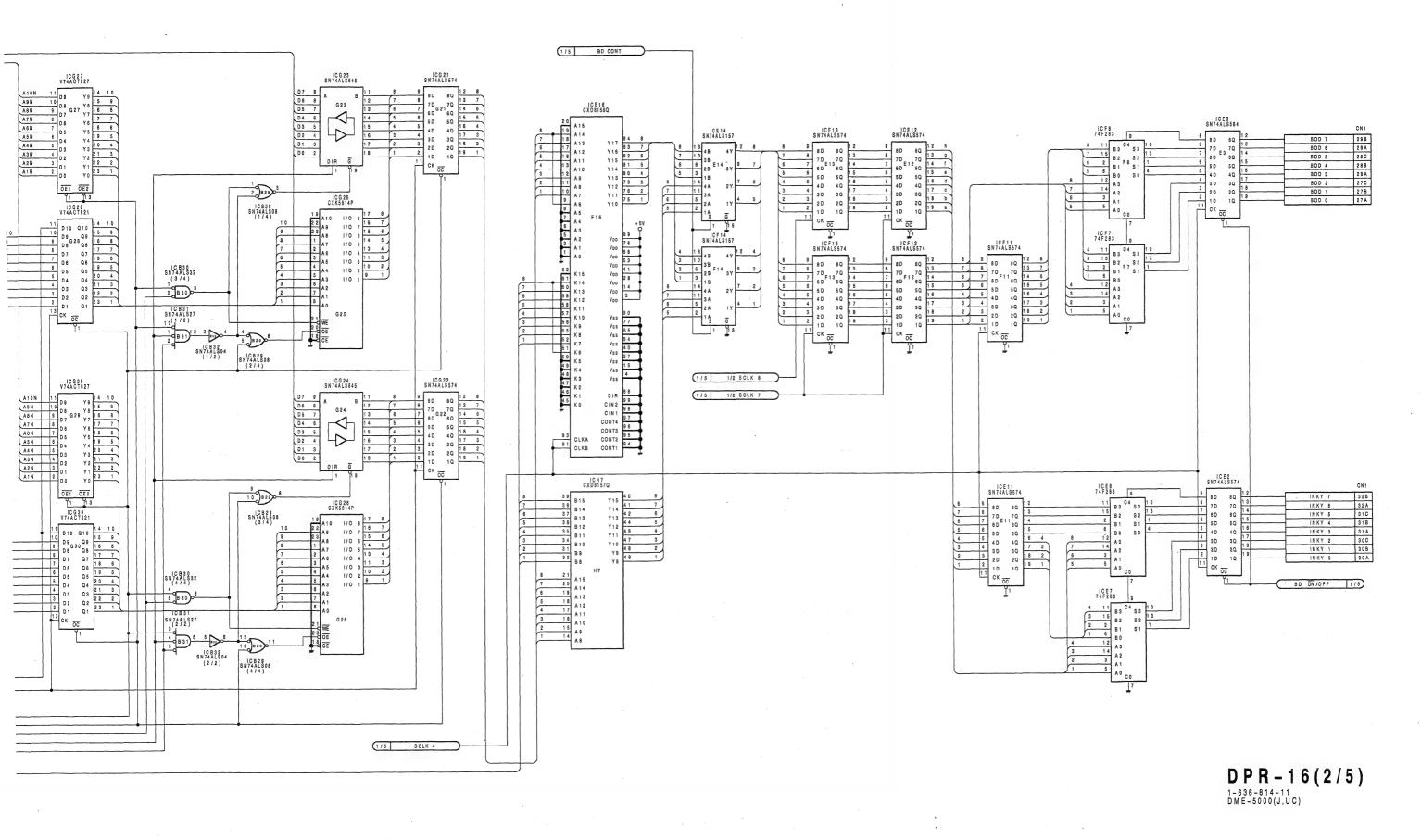
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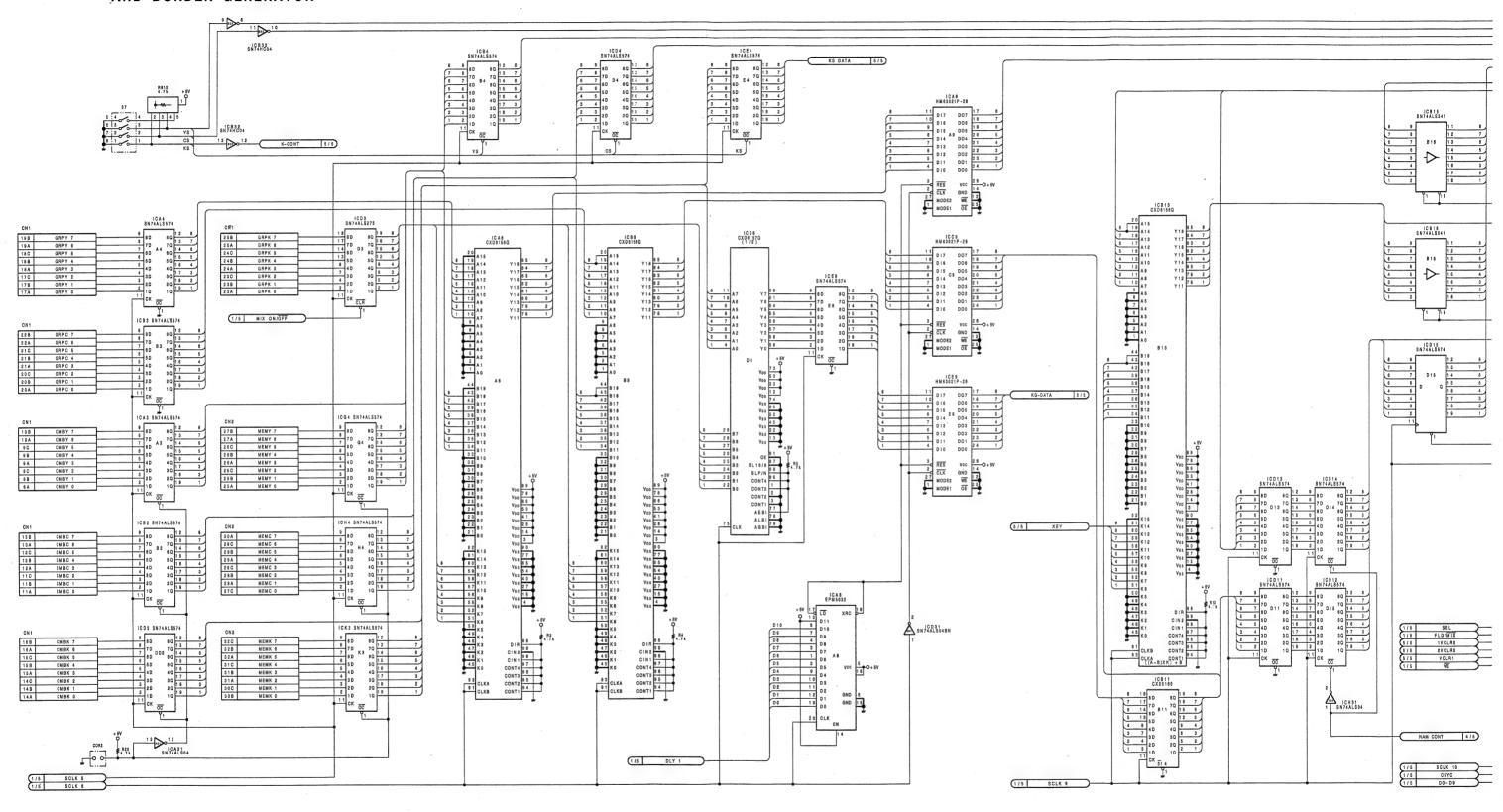
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8 - 150

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DPR-16;OUTPUT RECURSIVE EFFECT GENERATOR AND BORDER GENERATOR



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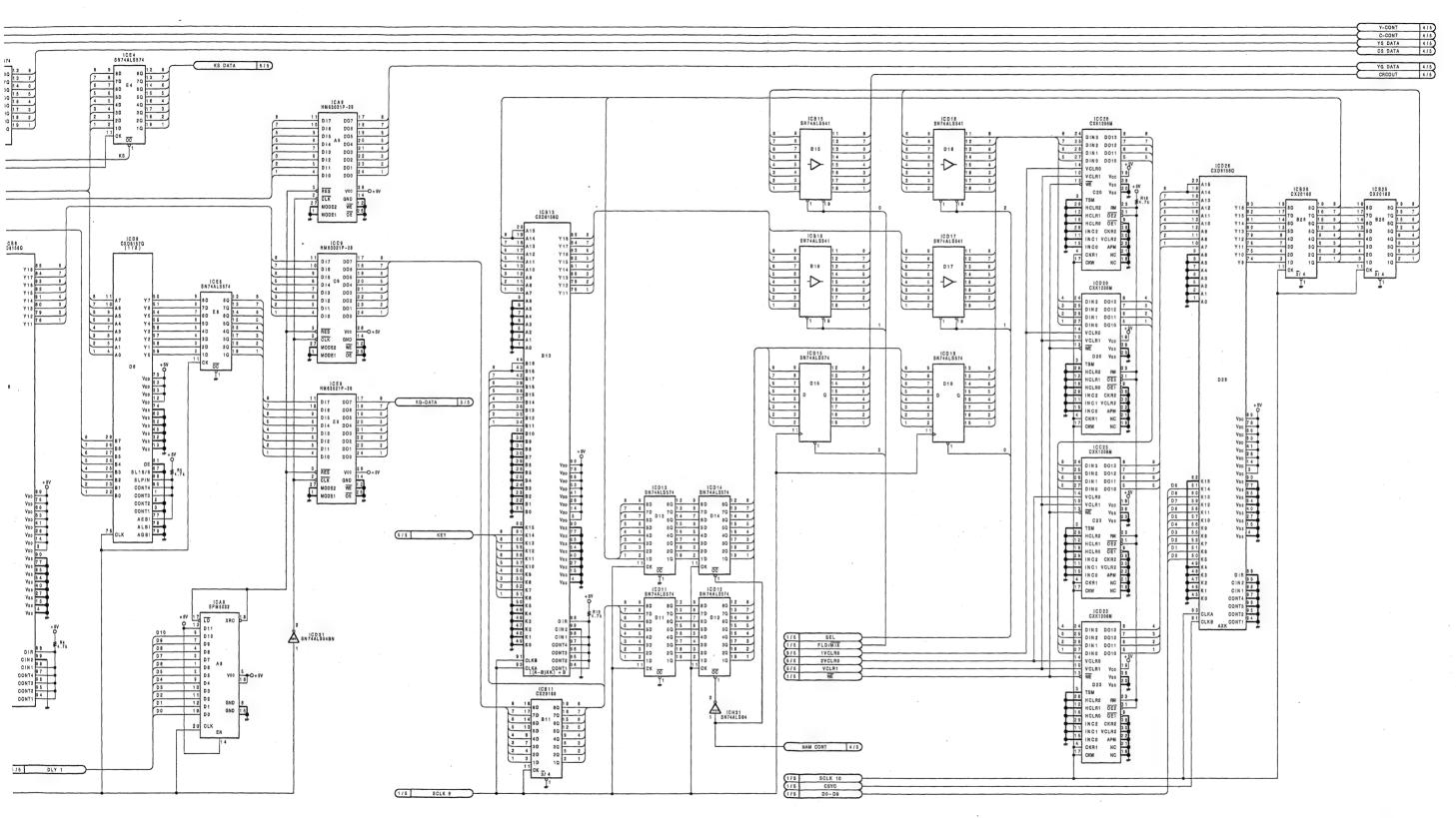
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DPR-16(3/5)

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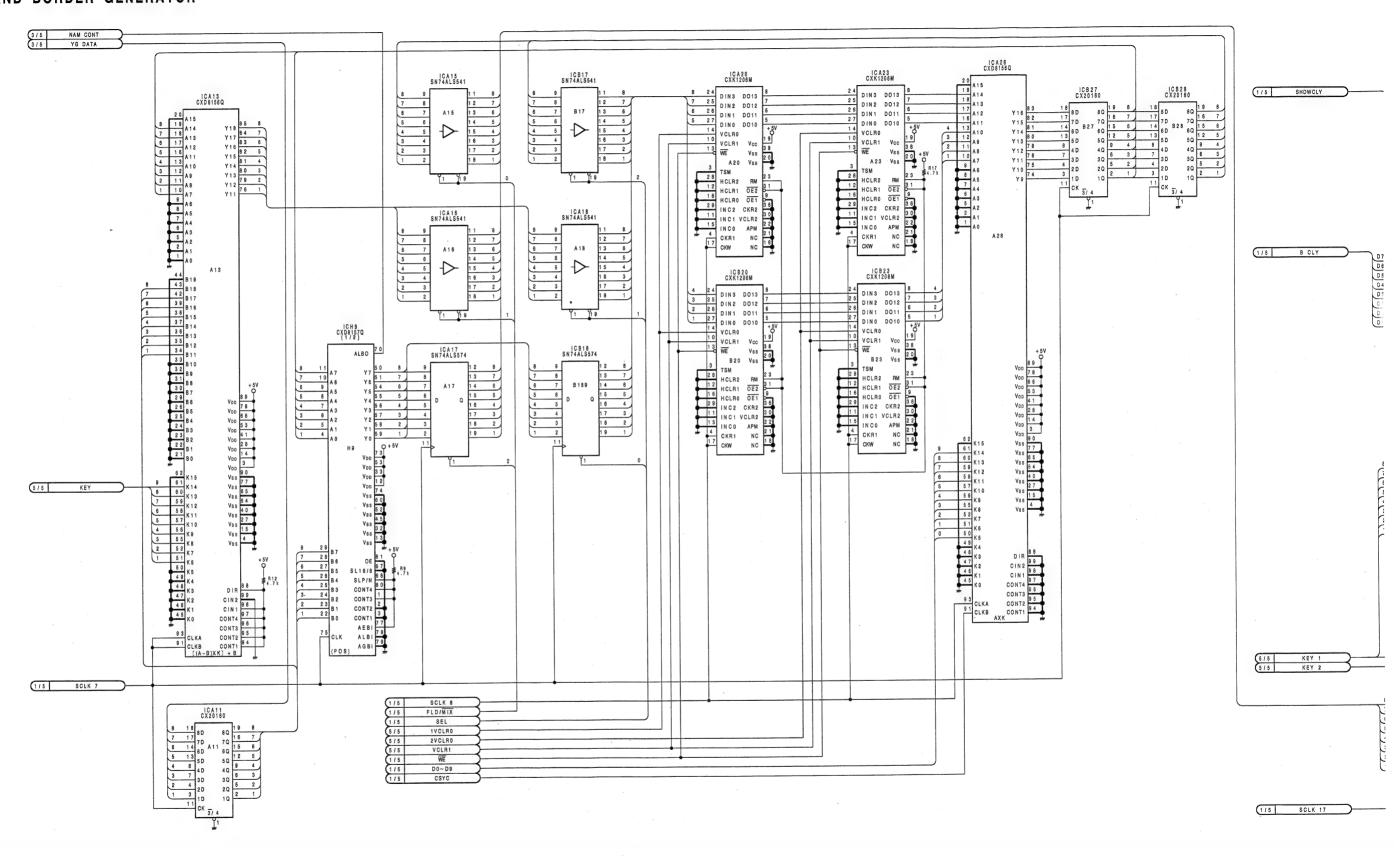
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8 - 156

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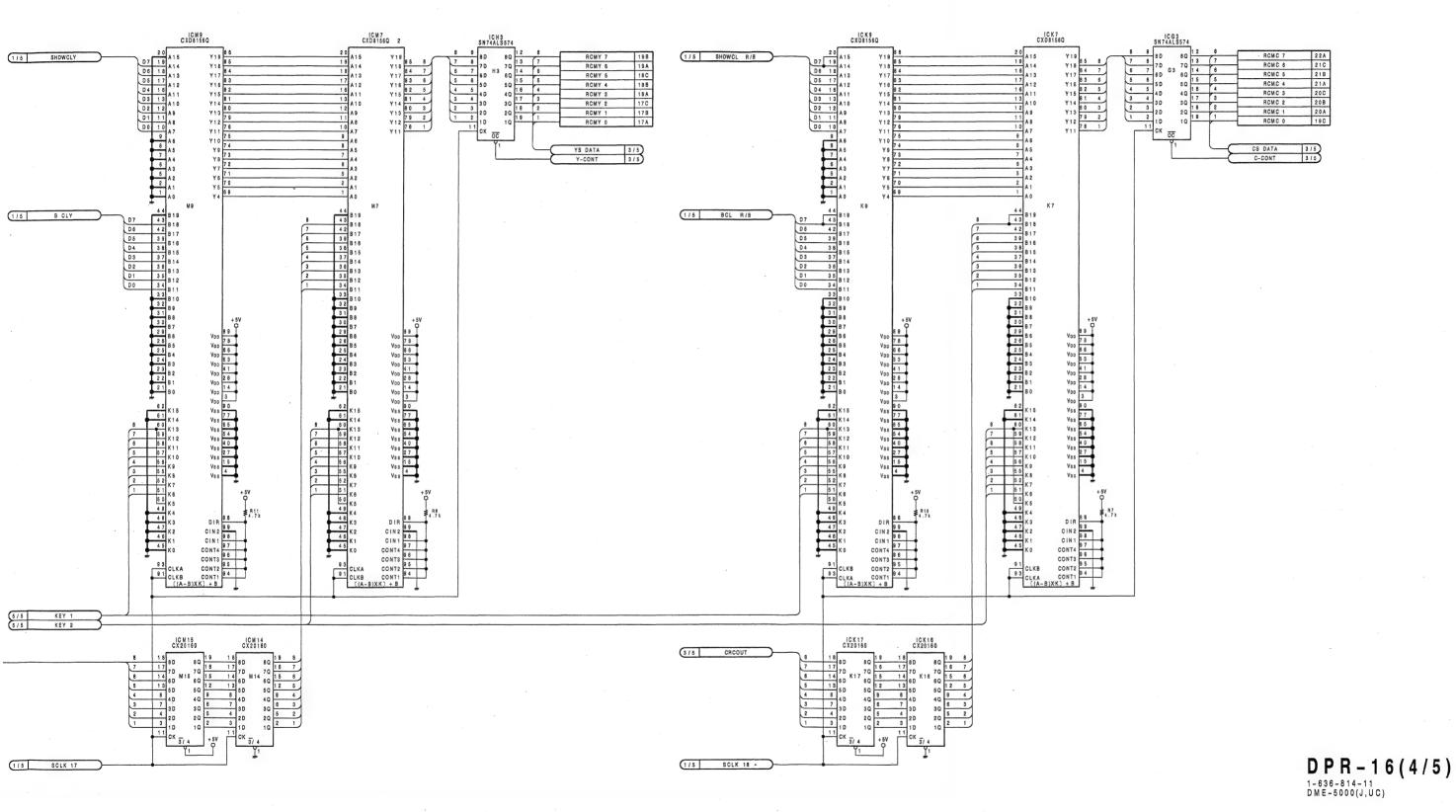
DPR-16:OUTPUT RECURSIVE EFFECT GENERATOR AND BORDER GENERATOR



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8 - 162

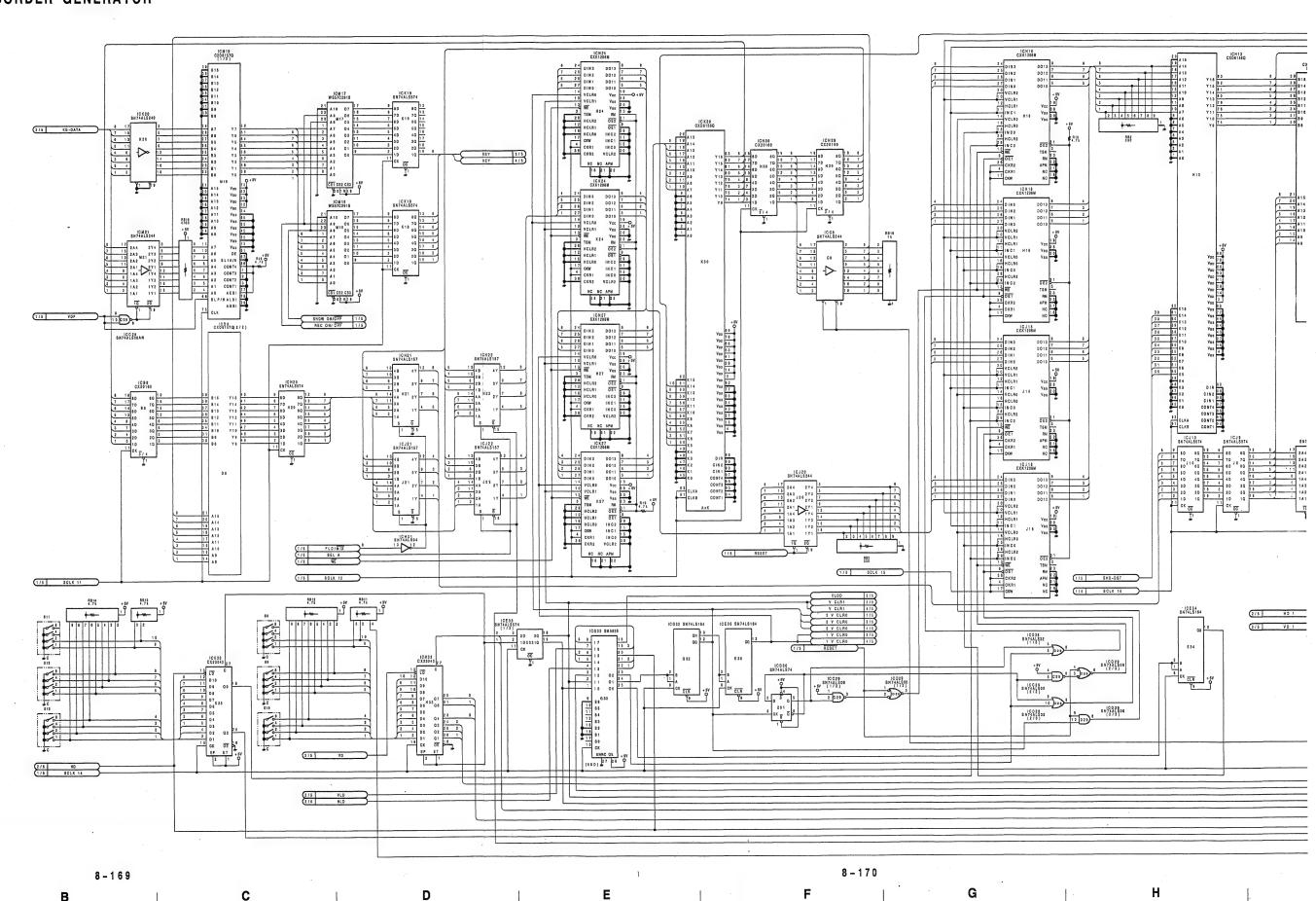


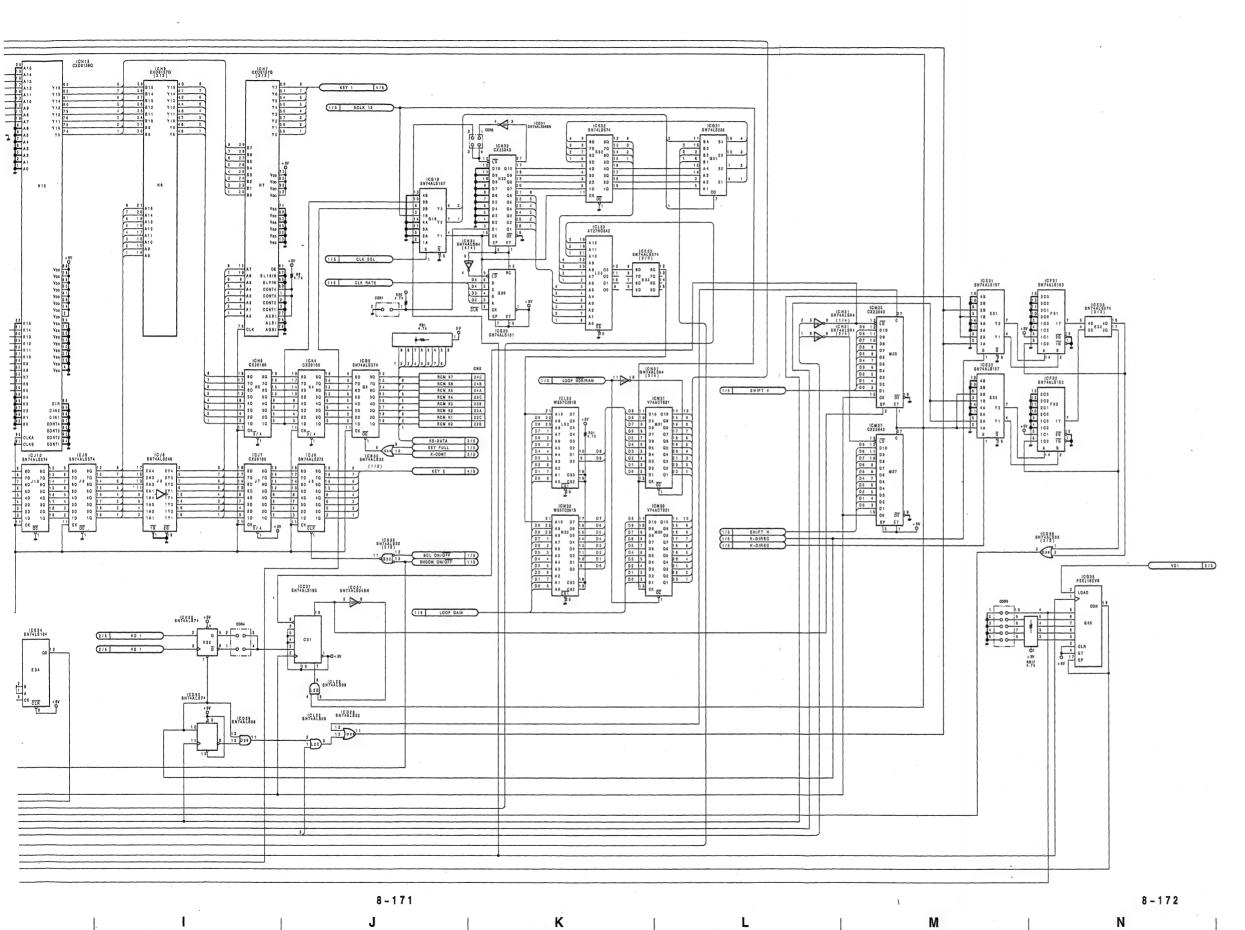
8-163

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DPR-16;OUTPUT RECURSIVE EFFECT GENERATOR AND BORDER GENERATOR

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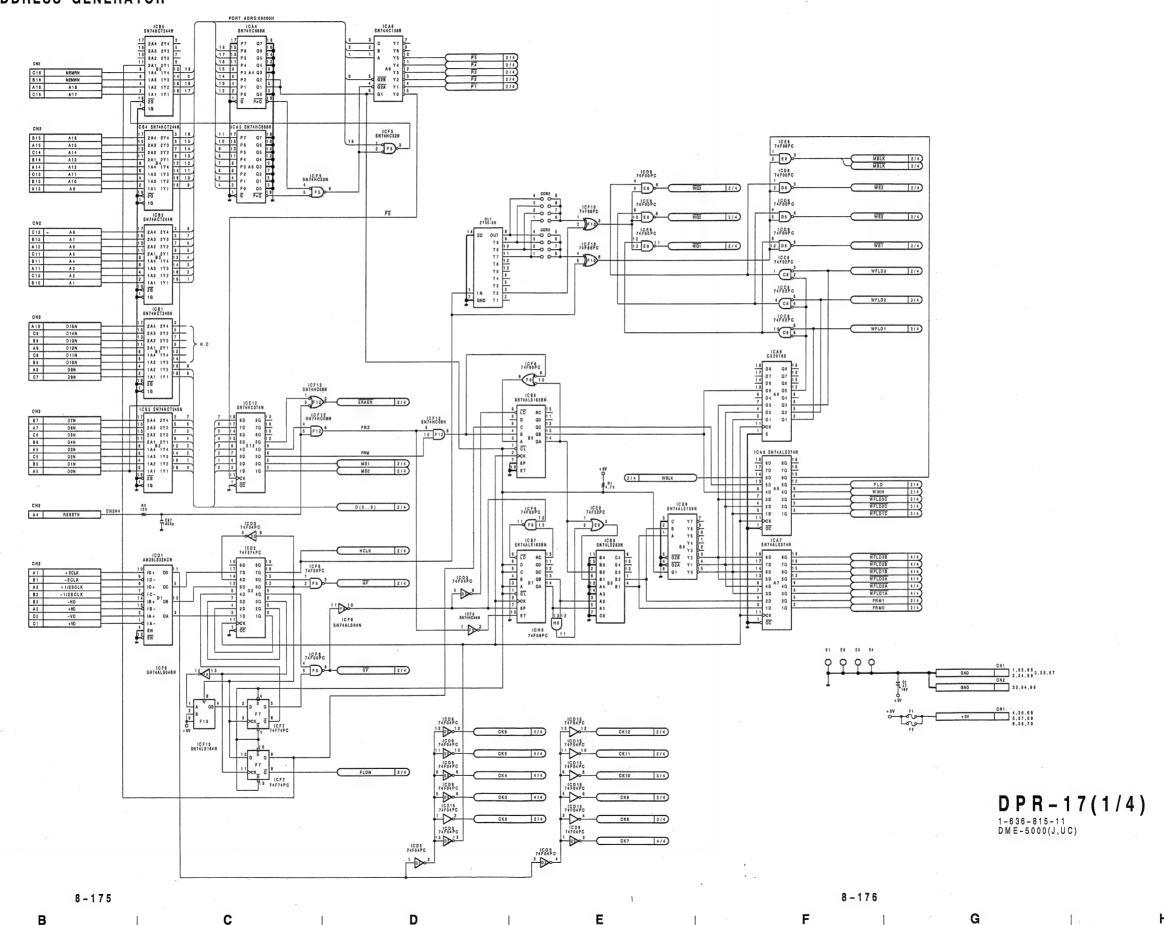




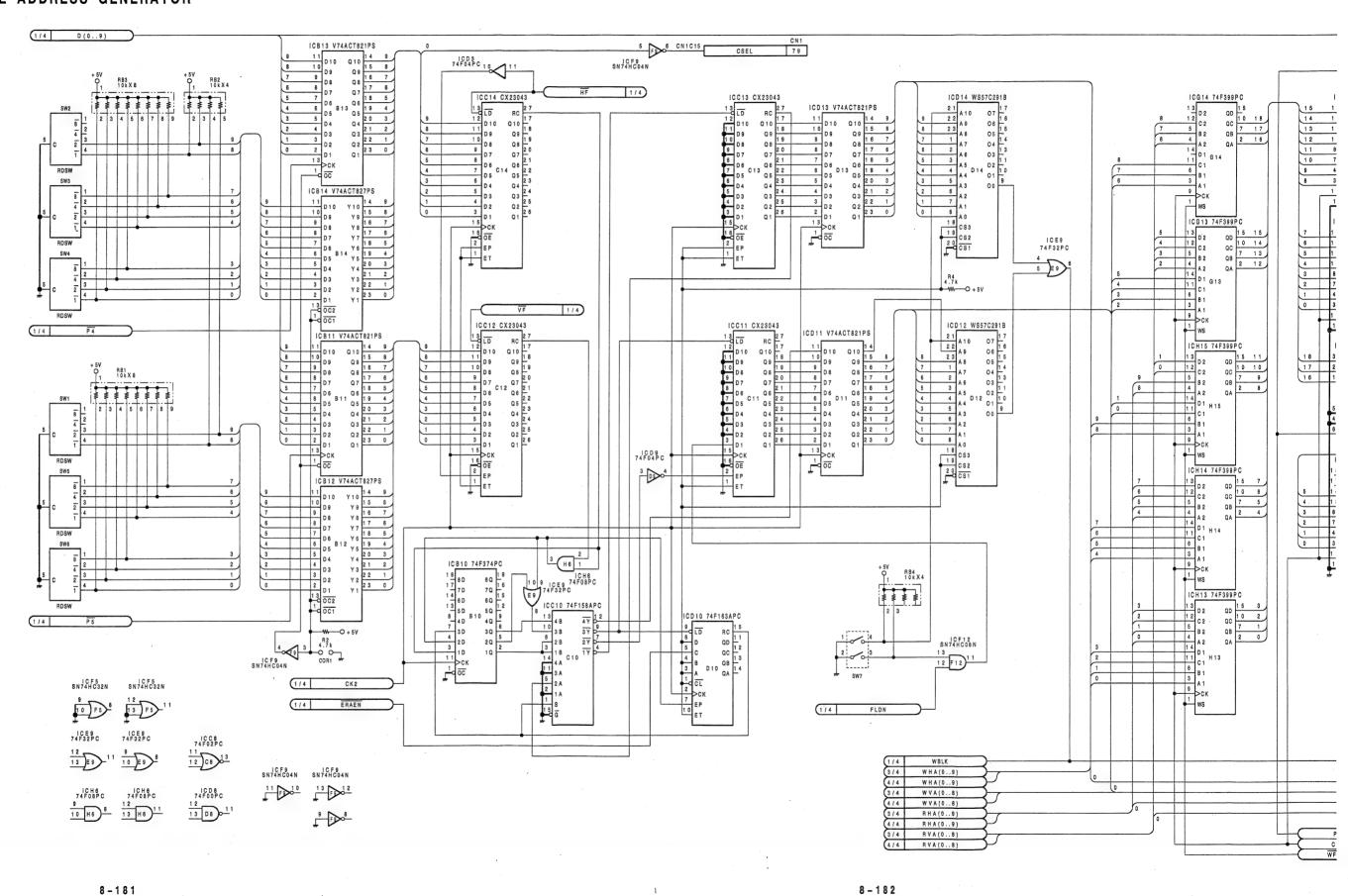
DPR-16(5/5)

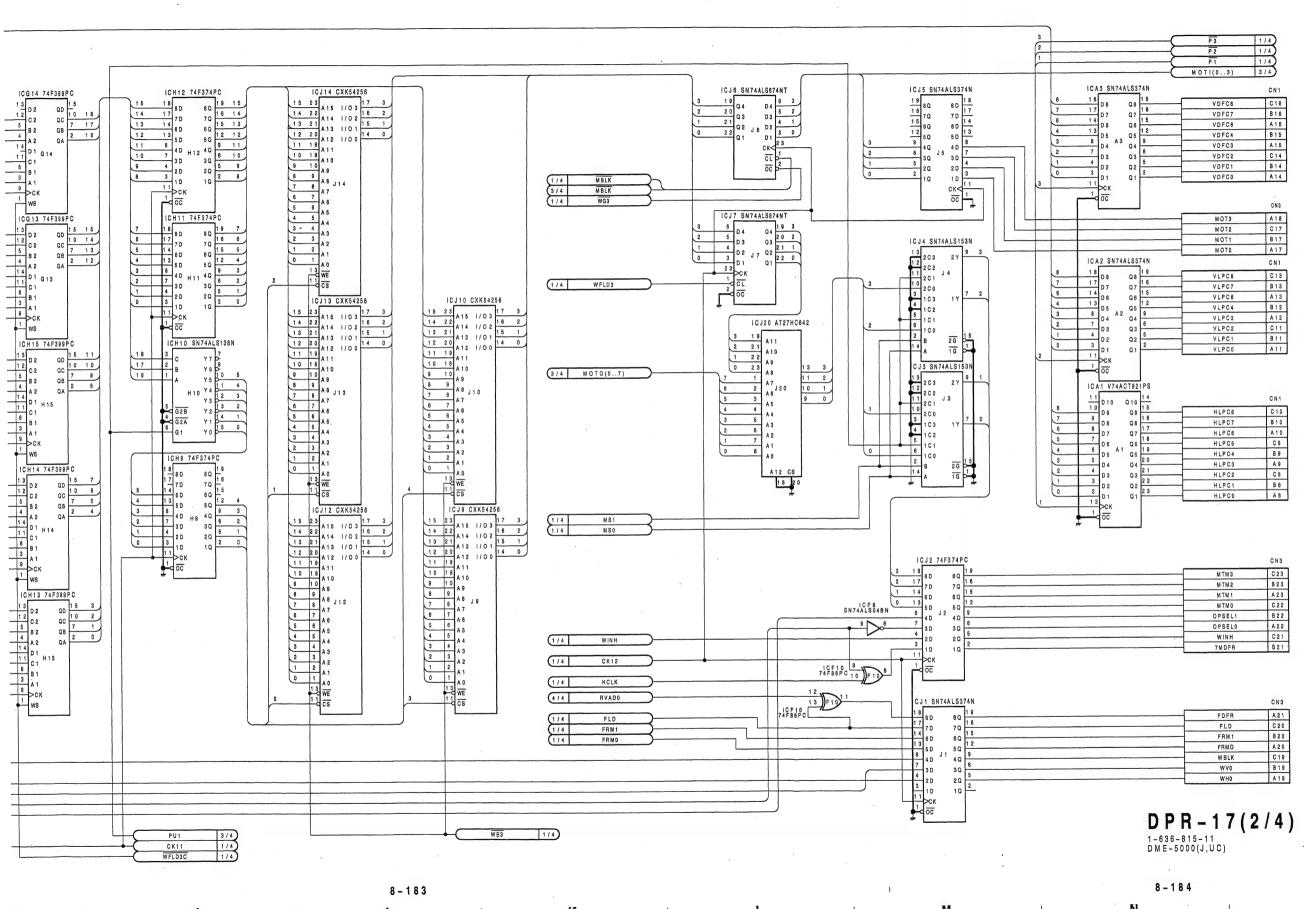
DPR-17; MEMORY ADDRESS SELECTOR AND WRITE ADDRESS GENERATOR

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DPR-17; MEMORY ADDRESS SELECTOR AND WRITE ADDRESS GENERATOR

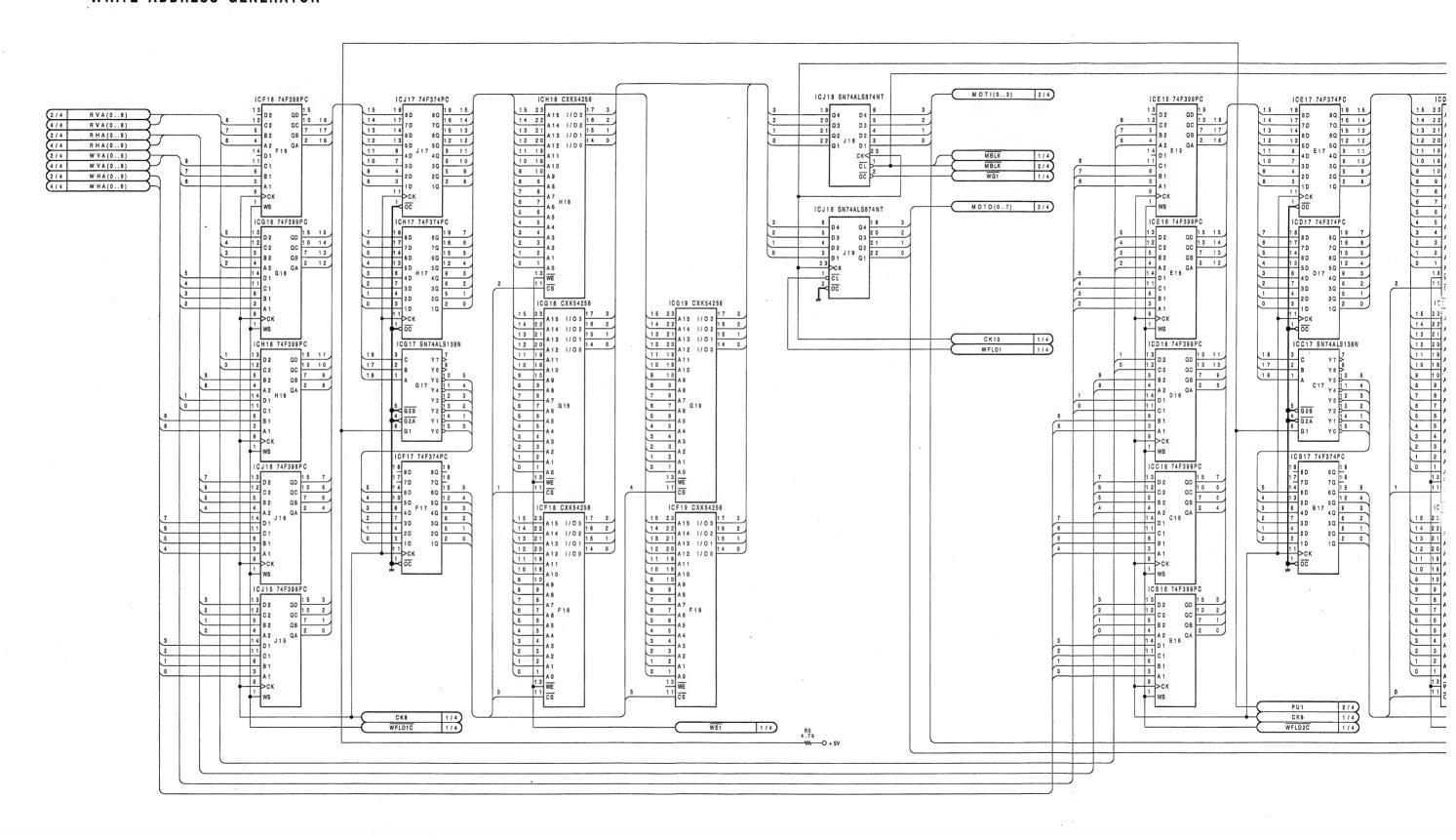




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DPR-17;MEMORY ADDRESS SELECTOR AND WRITE ADDRESS GENERATOR



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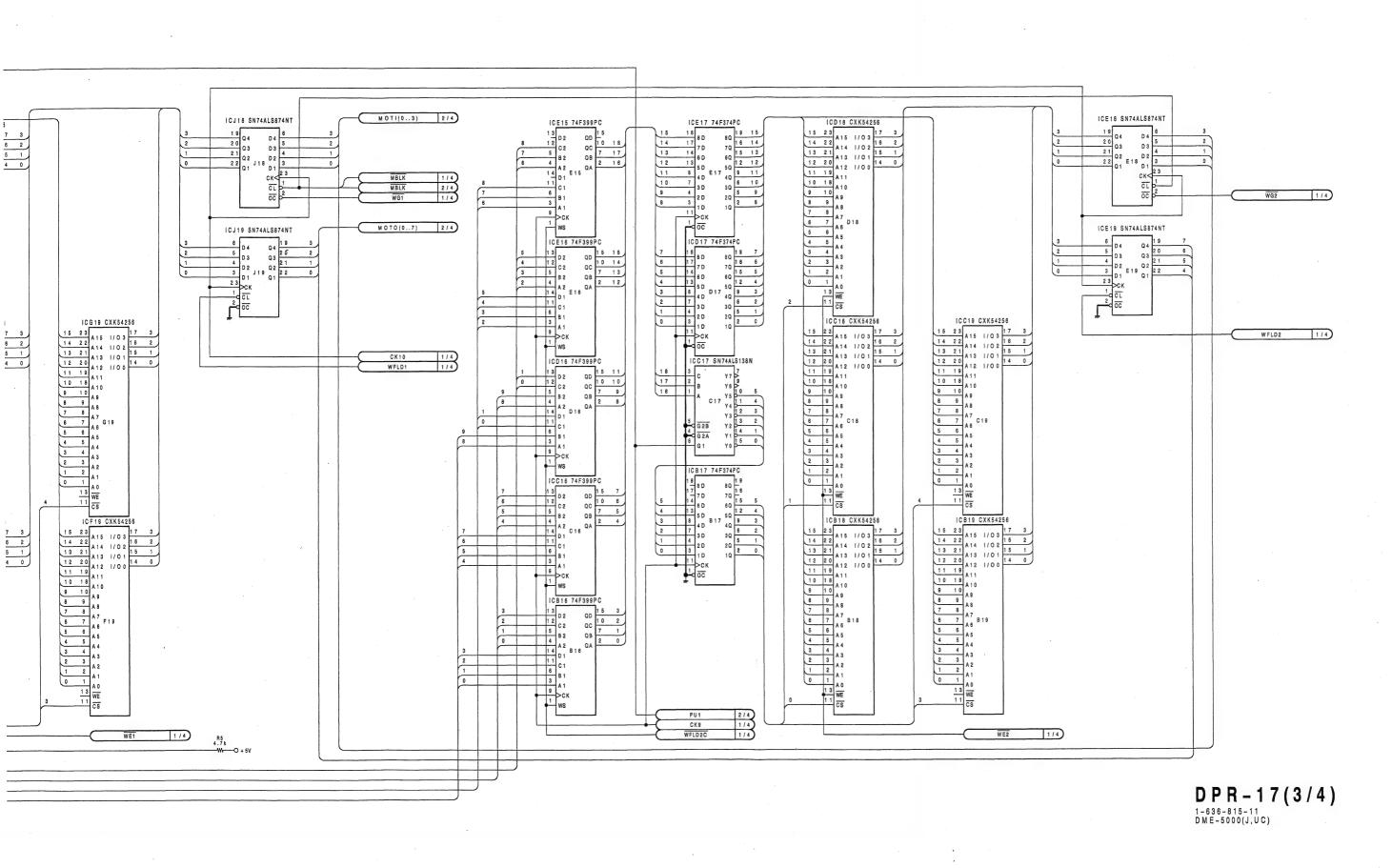
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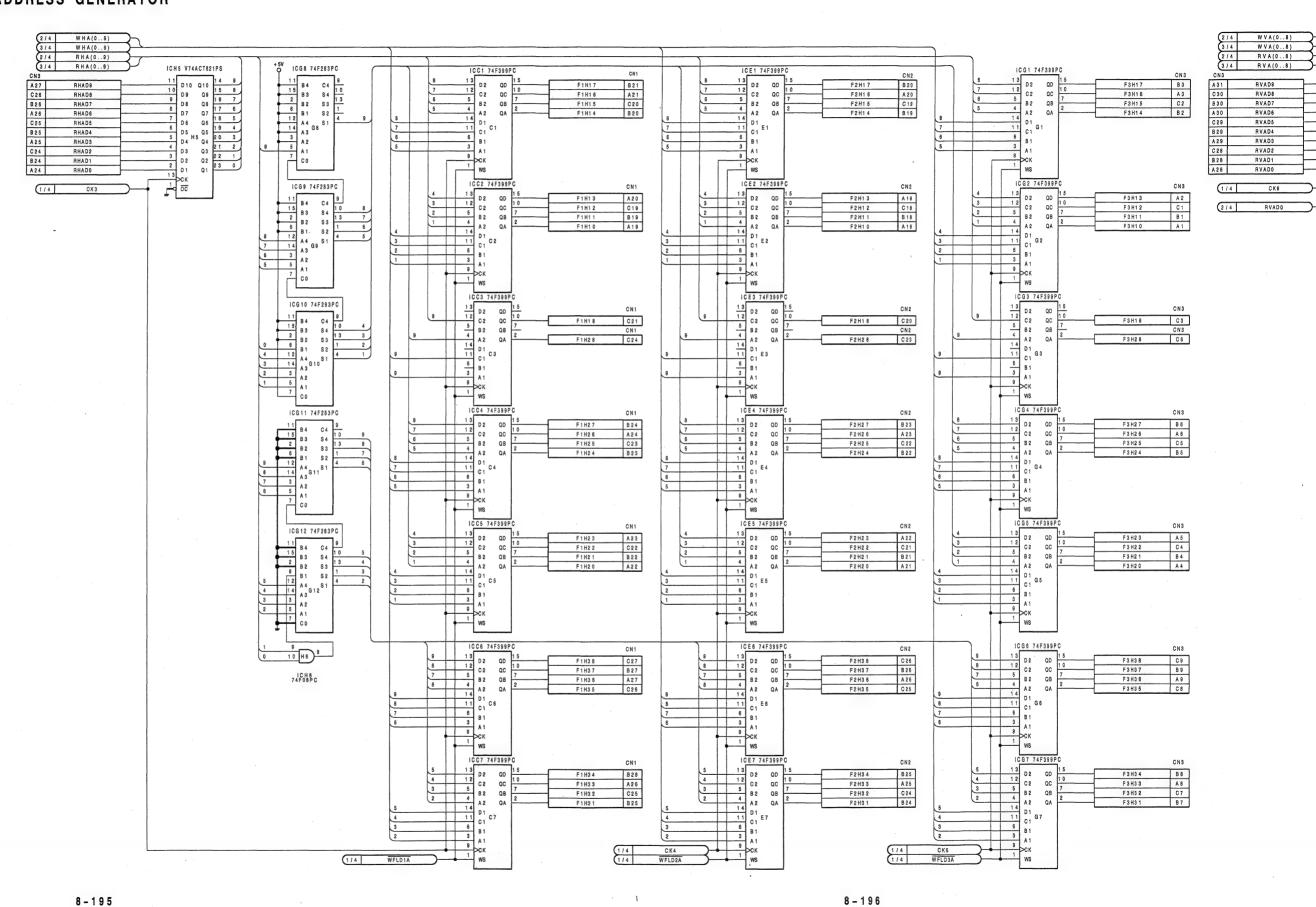
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8 - 189

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DPR-17; MEMORY ADDRESS SELECTOR AND WRITE ADDRESS GENERATOR

В



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W V A (0..8) W V A (0..8) R V A (0..8)

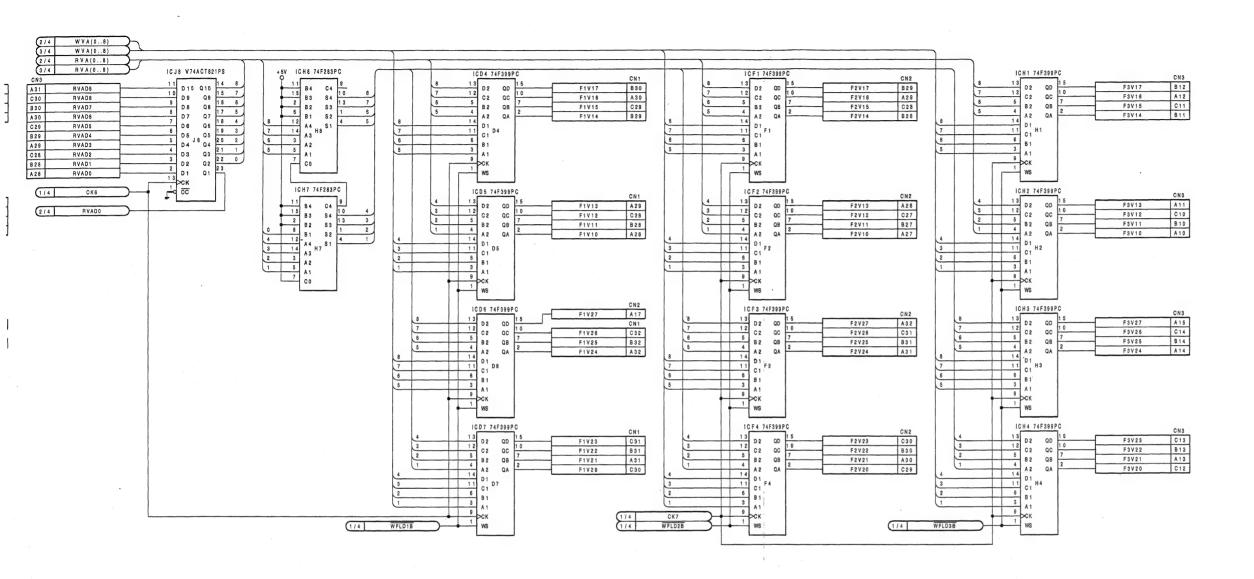
RVAD8

RVAD7 RVAD6

RVAD4 RVAD3

RVAD2

RVAD0



DPR-17(4/4)

8 - 198

8 - 197

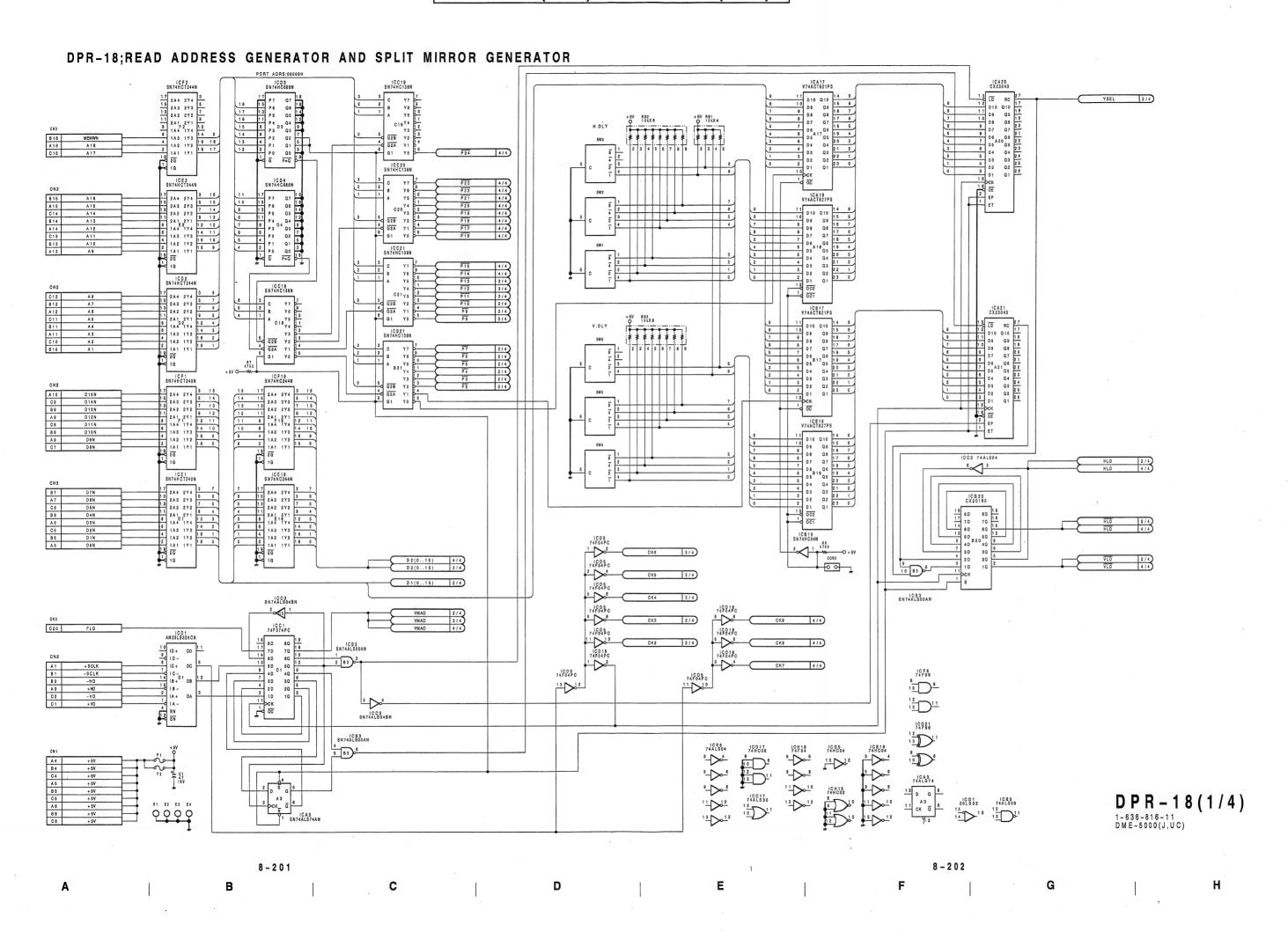
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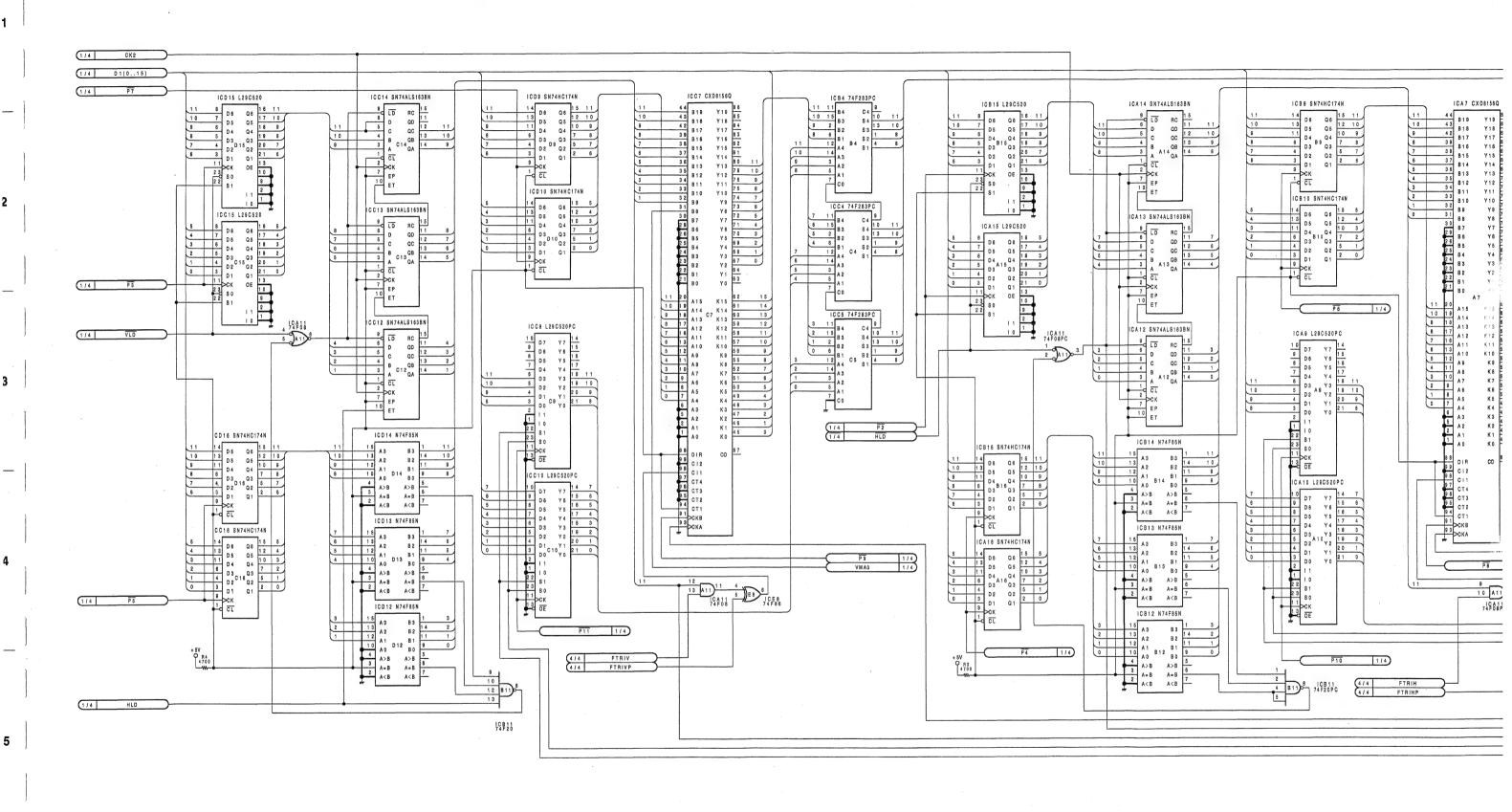
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DPR-18; READ ADDRESS GENERATOR AND SPLIT MIRROR GENERATOR

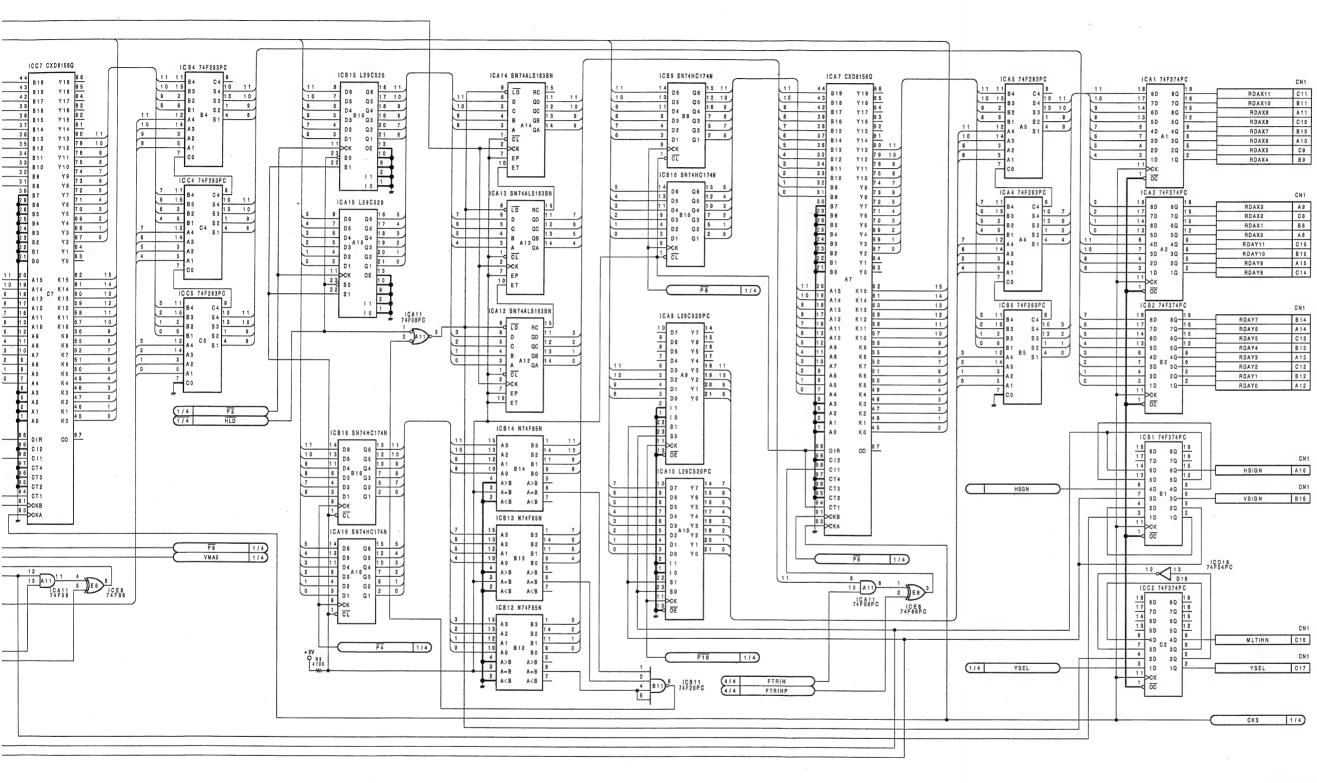


8 - 207

В

8 - 206

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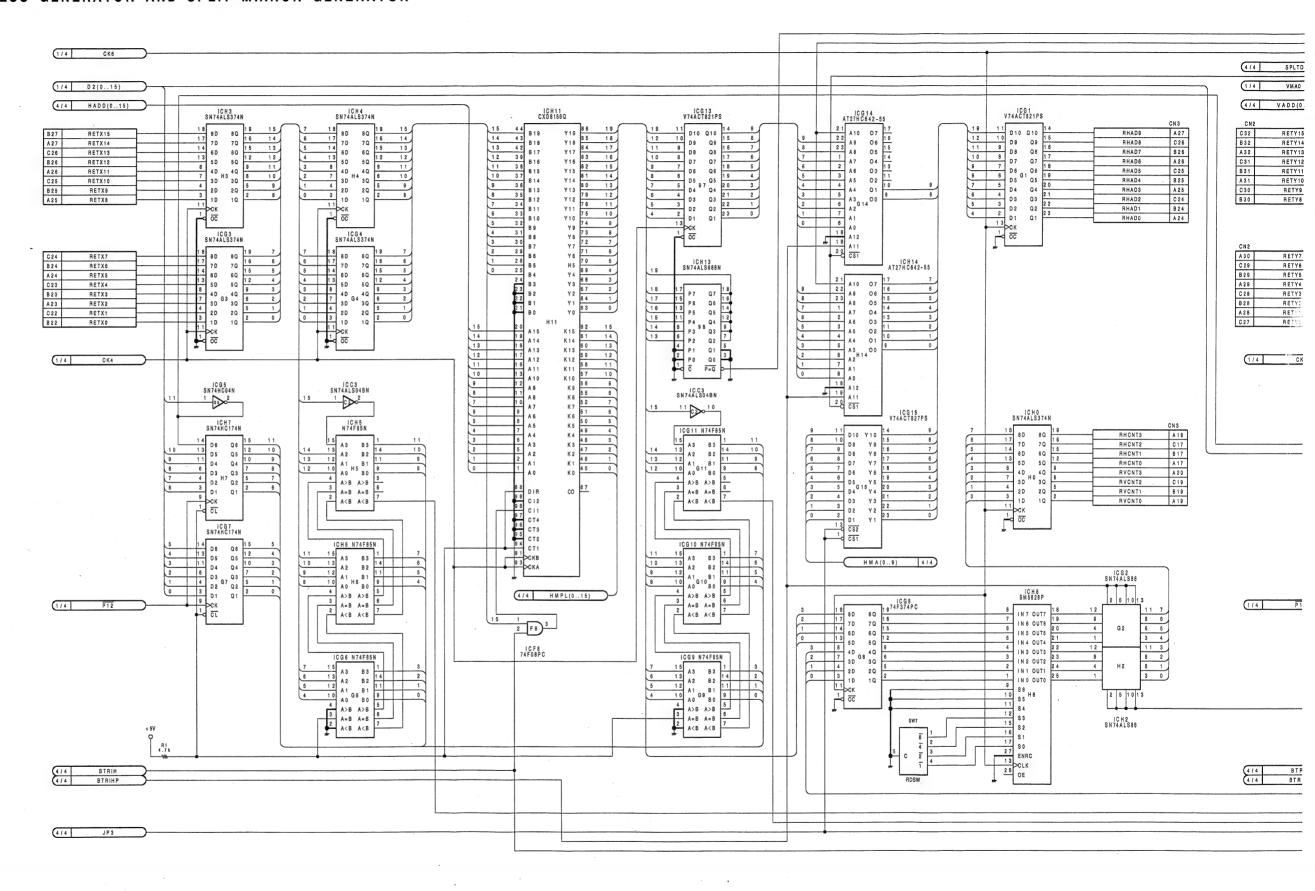
DPR-18(2/4)

K

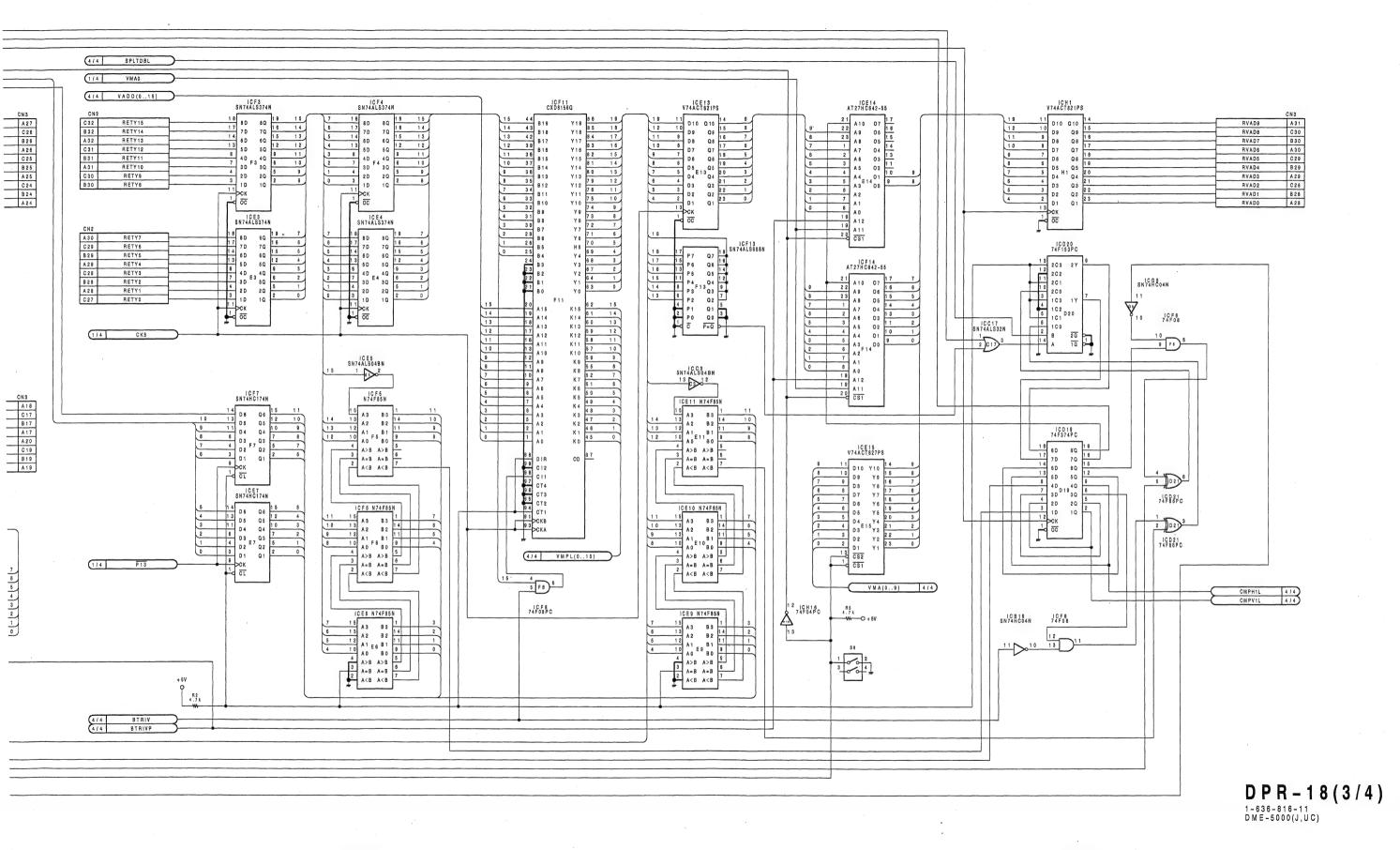
8-207 F G H J J

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DPR-18; READ ADDRESS GENERATOR AND SPLIT MIRROR GENERATOR



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8 - 2 1 6

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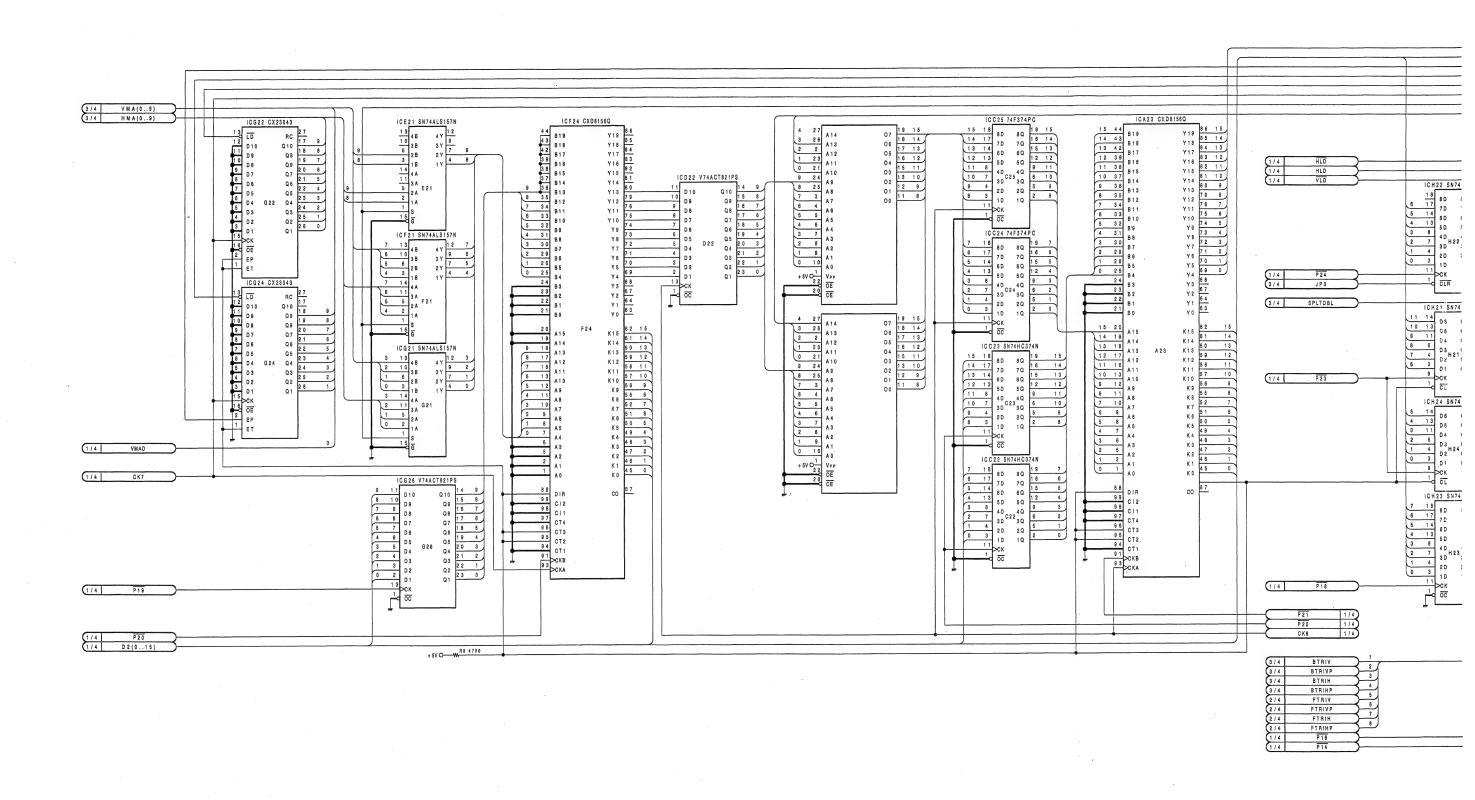
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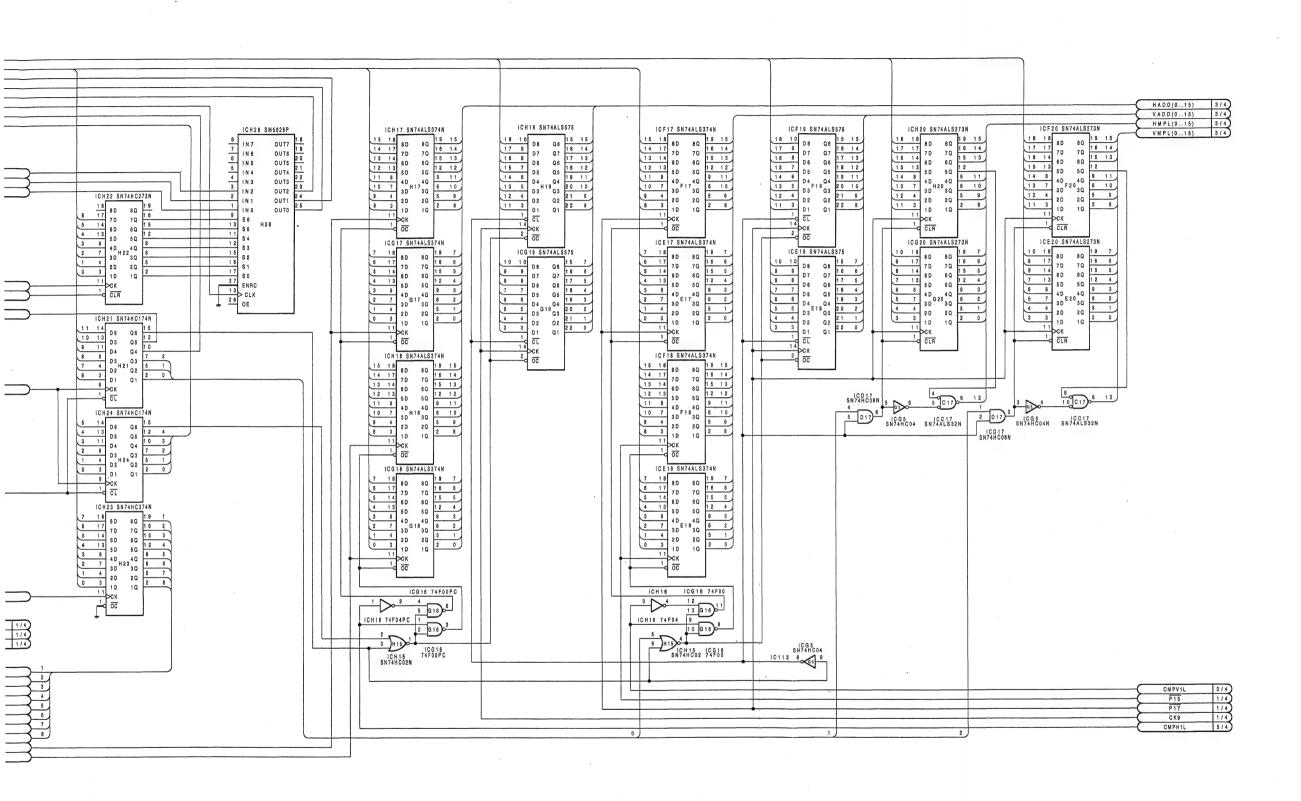
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DPR-18; READ ADDRESS GENERATOR AND SPLIT MIRROR GENERATOR



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DPR-18(4/4)

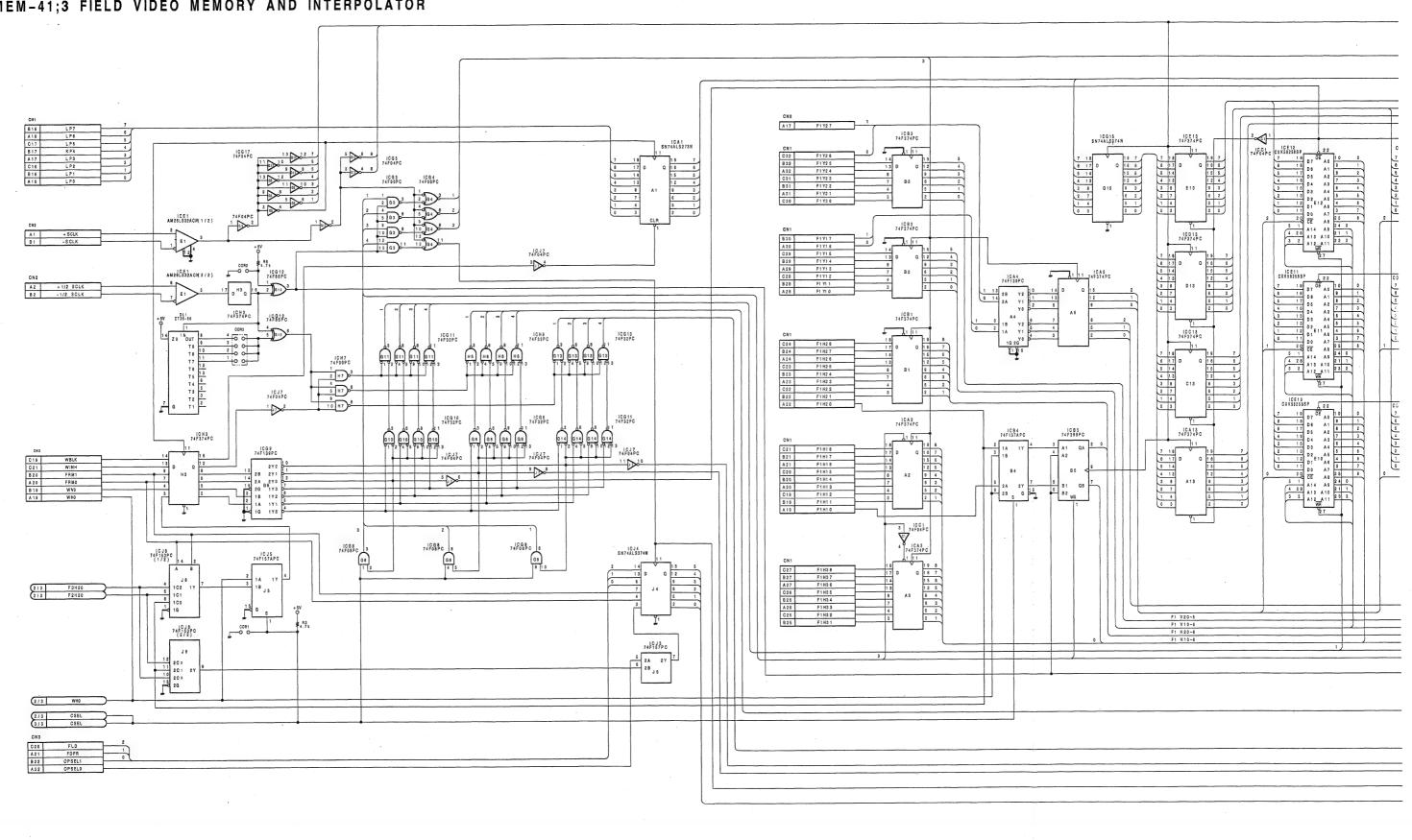
8 - 2 2 4

8 - 223

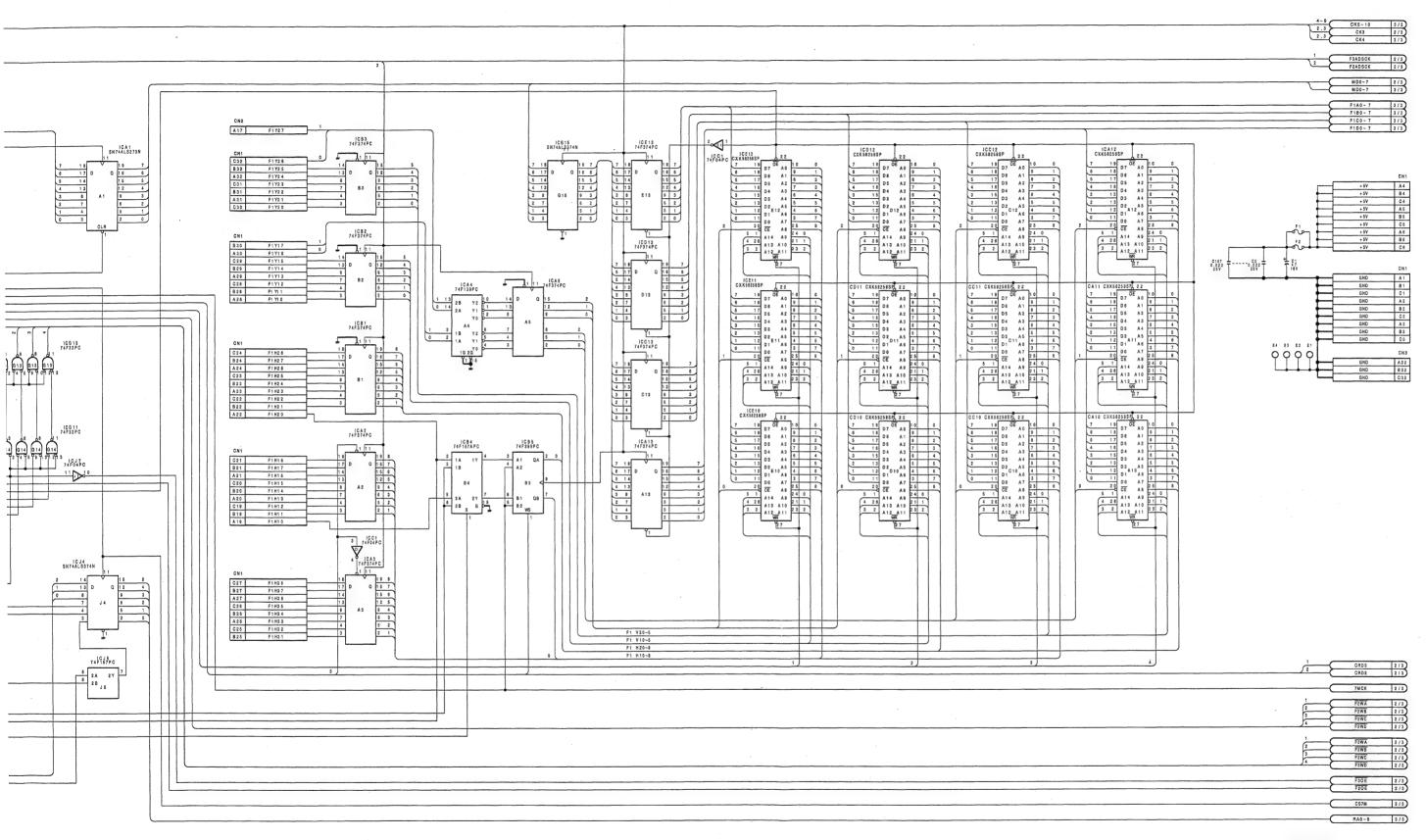
K

MEM-41;3 FIELD VIDEO MEMORY AND INTERPOLATOR

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8 - 229



MEM-41(1/3)

1-636-820-11
DME-5000(J,UC)

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F G H I I J

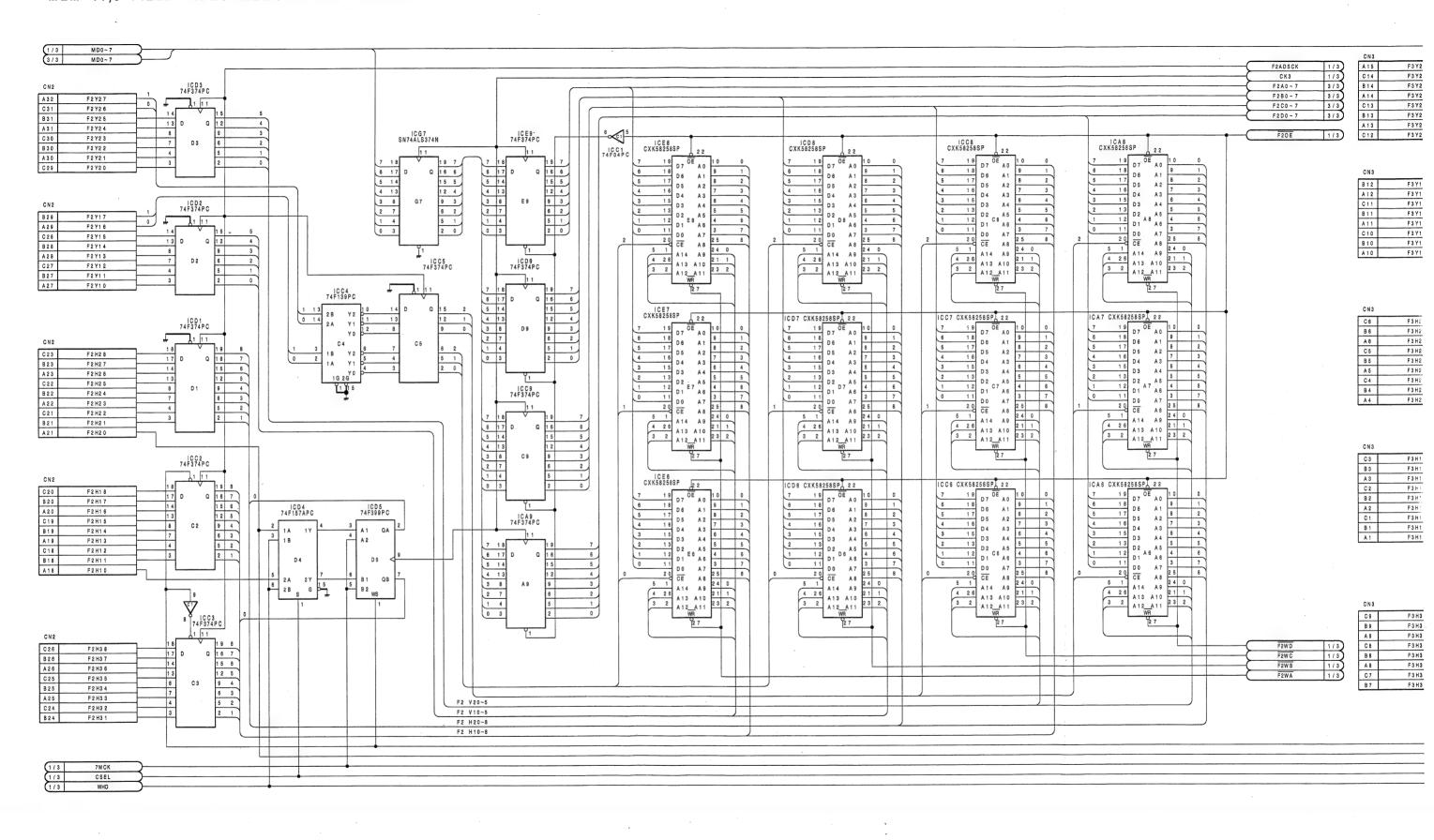
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8 - 230

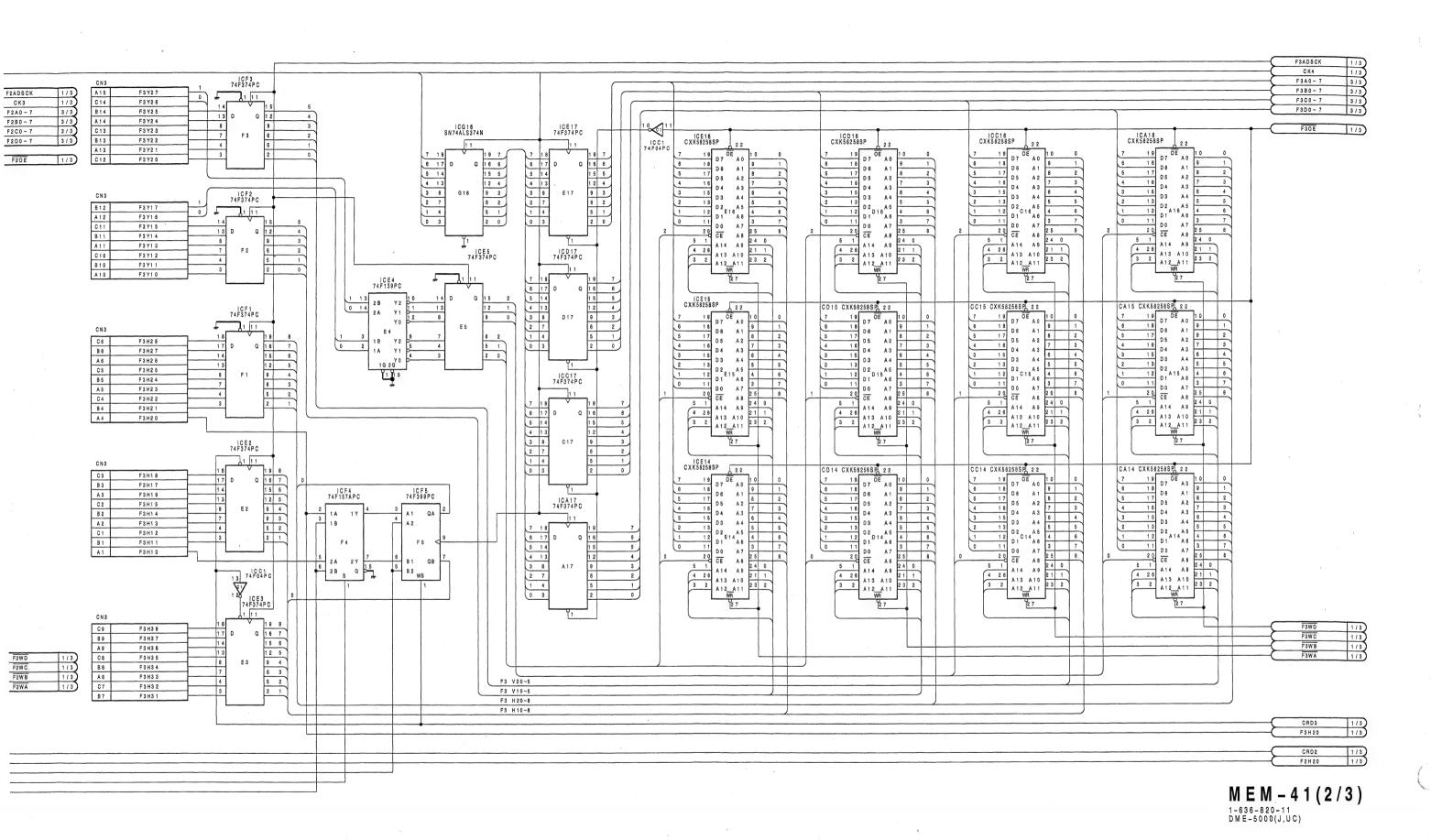
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MEM-41;3 FIELD VIDEO MEMORY AND INTERPOLATOR



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8 - 237

MEM-41;3 FIELD VIDEO MEMORY AND INTERPOLATOR 5 8 ~6 3 4 8 ~5 5 4 0 ~4 7 3 2 ~3 9 2 4 ~3 1 1 8 ~2 3 8 ~1 5 0 ~7 F2C0 ~ 7 F2B0 ~ 7 F2A0 ~ 7 F1D0 ~ 7 1CD20 CXD8158Q ICA19 CXD8158Q ICD 19 CXD8158Q ICE19 CXD8158Q 80 88 59 87 58 86 57 85 58 86 57 85 58 86 57 85 64 170 48 79 18 0 44 84 43 63 44 61 40 80 15 0 36 58 33 55 7 34 58 33 55 7 34 58 33 55 14 0 15 0 16 28 17 0 18 0 63 86 62 85 61 84 10 30 2 4~3 1 1 6~2 3 8 ~1 5 0 ~7 +5:14,41 67,89 4 6 2 0 4 5 1 9 4 4 1 8 4 3 1 7 4 2 1 5 7 7 1 2 7 6 1 1 7 5 1 0 7 4 9 7 3 8 \$2 83 81 82 \$0 81 48 79 44 64 43 83 42 82 41 81 40 80 83 55 87 34 58 33 55 32 54 82 82 7 51 26 60 82 18 31 17 30 18 22 12 27 11 28 20 18 21 17 30 18 22 12 27 11 28 20 18 21 17 30 18 22 12 27 11 28 20 28 22 18 31 17 30 18 22 18 31 17 30 18 22 18 31 17 30 18 22 18 31 17 30 18 22 18 31 17 30 18 22 18 31 17 30 18 22 18 31 17 30 18 22 18 31 17 30 18 22 18 31 17 30 18 22 18 31 17 30 18 22 18 31 17 30 18 22 18 31 17 30 18 22 18 31 17 30 18 22 18 31 17 30 18 22 18 31 17 30 18 22 18 31 17 30 18 22 18 31 18 31 17 30 18 22 18 31 18 31 17 30 18 22 18 31 18 3 +5:14,41 67,89 46 20 45 19 44 18 43 17 42 16 67,89 GND: 3, 15, 22, 28 60 34, 40 47, 53 59, 66 72, 78 90, 92 5 5 8 1 5 4 8 0 5 3 7 9 GND:3,15 22,28; 0 34,40 47,53 59,66 72,78 90,92 GND: 3, 15 22, 28 34, 40 47, 53 59, 86 72, 78 90, 92 GND:3.15 22,28 0 34,40 47,53 59,88 72,78 GND:3,15 22,28 34,40 47.53 59,86 72.78 90,92 GND:3.15 22.28 34,40 47,53 59,68 72,78 90,92 4 4 2 3 4 3 2 2 4 2 2 1 55 81 54 80 53 79 47 62 46 61 45 60 1 3 100 2 99 1 98 0 D32 7 11 8 10 5 9 D30 28 52 27 51 26 50 25 49 24 48 20 33 18 31 17 30 18 27 11 28 10 25 9 24 4 8 20 33 18 31 17 30 18 27 11 28 10 25 9 24 11 27 11 28 10 25 11 27 11 28 11 2 28 52 27 51 26 50 25 48 24 48 20 33 19 32 11 7 30 16 29 11 26 10 25 10 2 31 50 30 49 29 48 D22 38 8 37 7 D21 36 6 D 2 2 D 2 1 D 2 0 D 0 2 9 8 2 9 5 1 D 0 0 9 4 0 15 25 14 24 13 23 COMCK CK3 CK2 CK1 CK0 COMCK CK3 CK2 CK1 CK0 COMCK 9 1 4 3 5 6 5 6 5 CK1 9 3 COMCK CK3 CK2 CK1 CK0 7 8 D33 D23 D23 D13 D03 3 8 D33 2 39 D23 1 7.1 D13 0 97 D03 COMCK 91 4 35 CK2 65 CK1 03 7 8 033 8 39 023 5 71 4 97 03 7 8 D33 D23 D23 D13 D03 3 8 D33 2 39 D23 1 71 0 97 D13 1CH12 74F374PC

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MTM3 MTM2 MTM1 MTM0

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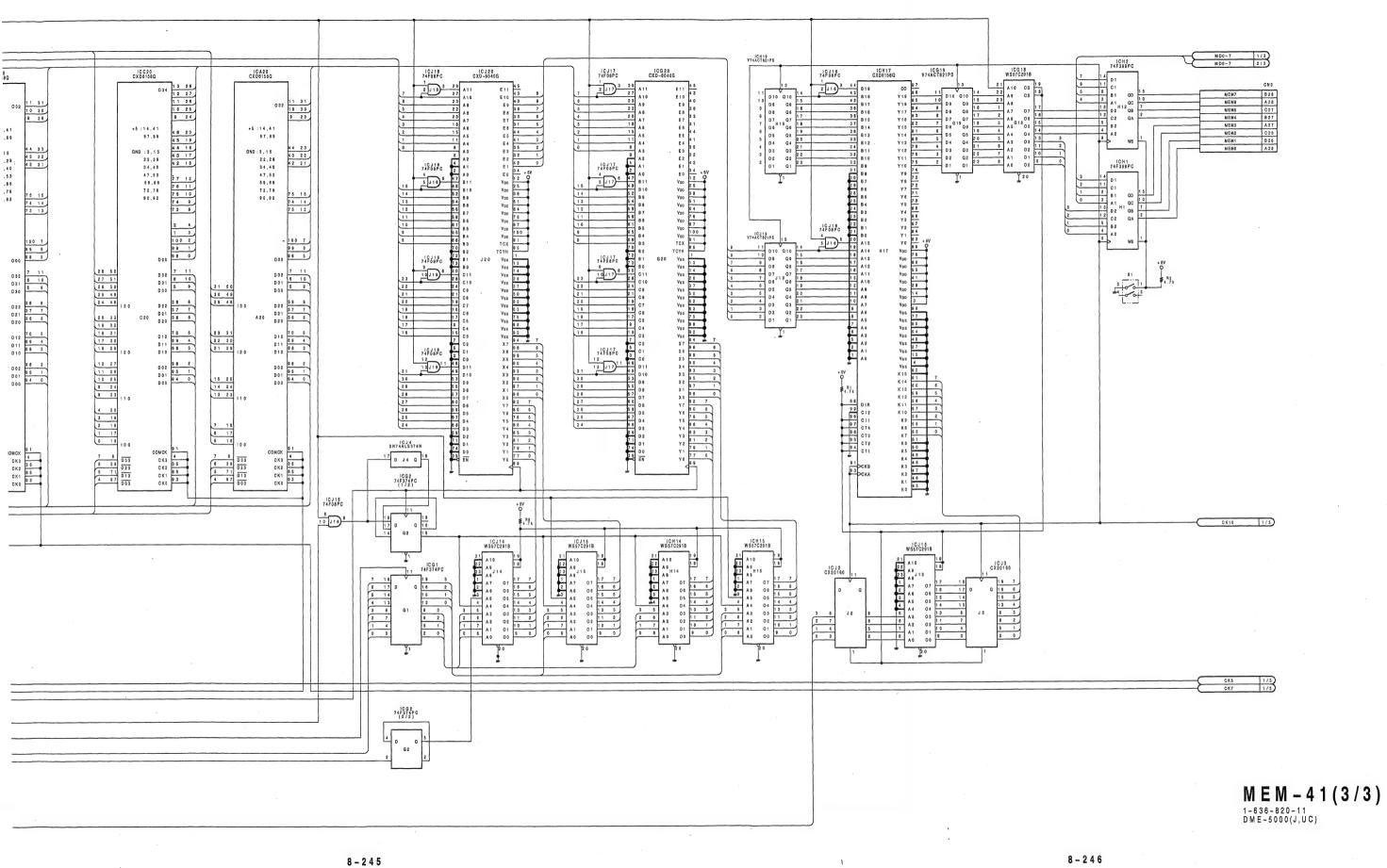
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8 - 244

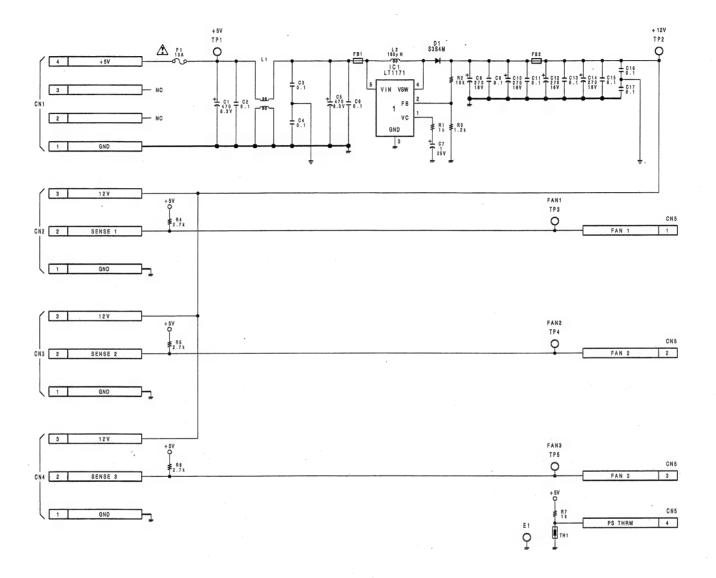
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CN-456; POWER SUPPLY CONNECTOR BOARD



CN-456

8 - 2 4 9

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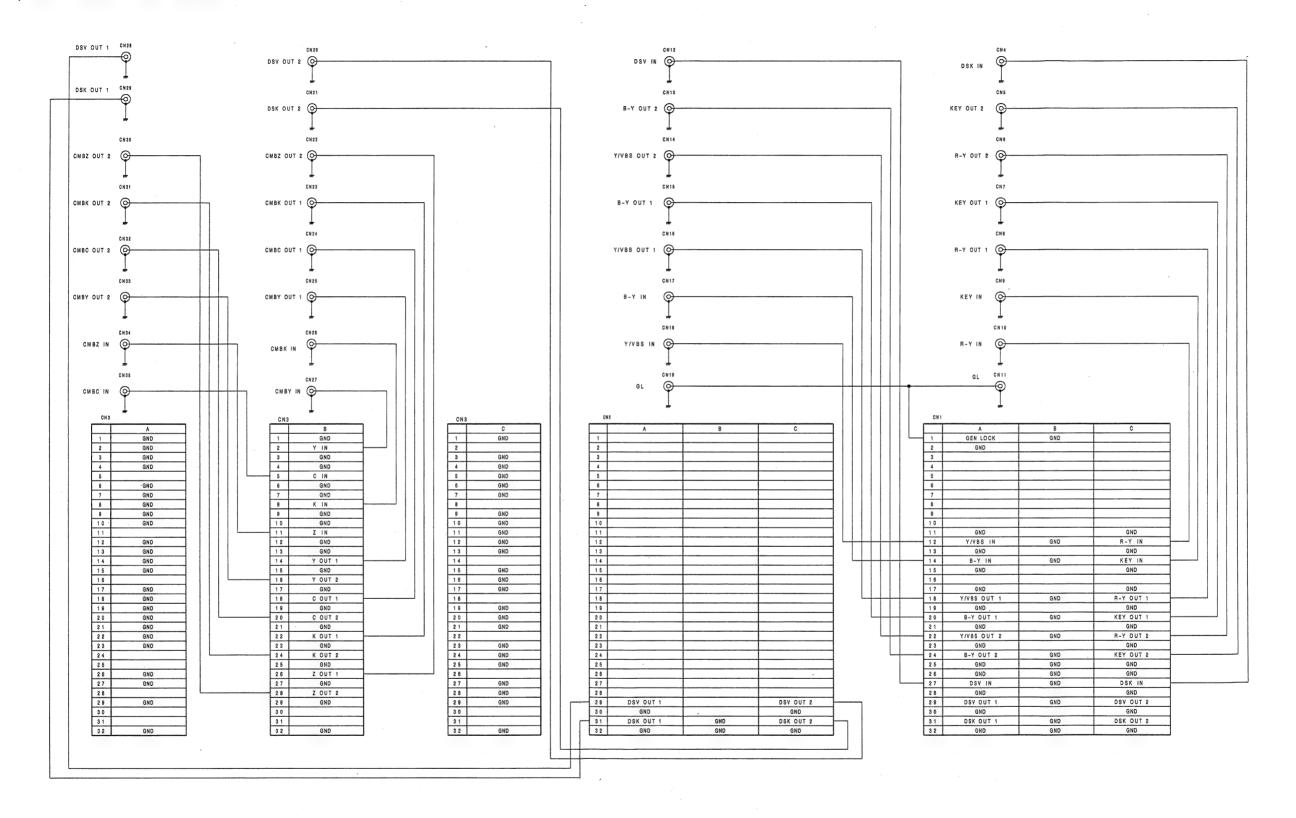
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CN-462; BNC CONNECTOR BOARD



CN-462 1-636-825-11 DME-5000(J,UC)

8 - 2 5 3

8 - 2 5 4

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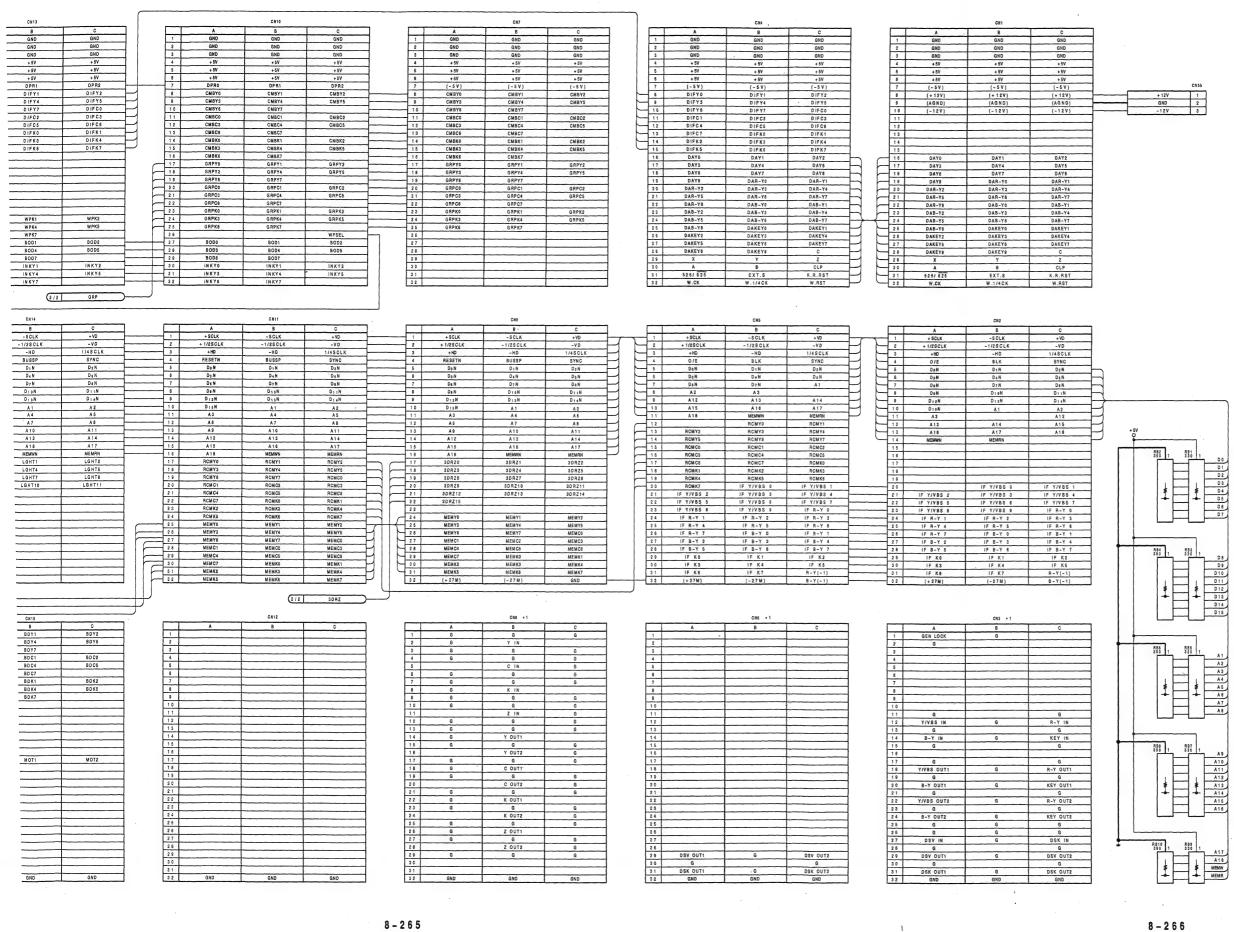
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-305;MOTHER BOARD			(2/2 HVLPC)-		
-3U5; WOTHER BUARD	CRES A B C C 1 GND GND GND GND GND 2 GND GND GND GND 3 GND GND GND GND 4 +5V +5V +5V +5V +5V 5 +5V +5V +5V +5V 6 +5V +5V +5V +5V 7 CONTO CONT1 CONT2 8 G G G G G G G G G G G G G G G G G G	CR22 A B C C 1 GAD GAD GAD GAD 2 GAD GAD GAD 3 GAD GAD GAD 4 +5V +5V +5V +5V 5 +5V +5V +5V +5V 6 +5V +5V +5V +5V 7 CONTO CONT1 CONT2 8 9 10 11 11 12 12 13 14 15 LPC0 LPC1 LPC2 17 LPC3 LPC4 LPC5 18 LPC6 LPC7 19 F1H10 F1H11 F1H15 2 1 F1H15 F1H17 F1H15 2 2 F1H20 F1H21 F1H22 2 3 F1H23 F1H24 F1H25 2 4 F1H26 F1H27 F1H28 2 5 F1H20 F1H31 F1H32	CHIS	A	CN13 A B C 1 GND GND GND 2 GND GND GND 3 GND GND GND 4 +5V +5V +5V +5V 5 +5V +5V +5V +5V 6 +5V +5V +5V +5V 7 DPRO DPR1 DPR2 8 DIFYO DIFY1 DIFY2 10 DIFY8 DIFY7 DIFC0 11 DIFC1 DIFC5 DIFC6 12 DIFC4 DIFC5 DIFC6 13 DIFC4 DIFC5 DIFC6 14 DIFC5 DIFC8 15 DIFK5 DIFK8 DIFK7 16 DIFK5 DIFK8 17 DIFK5 DIFK8 18 DIFK5 DIFK8 19 DIFK5 DIFK8 10 DIFK5 DIFK8 11 DIFC5 DIFK5 DIFK7 14 DIFC5 DIFC6 15 DIFK5 DIFK8 DIFK7 16 DIFK5 DIFK8 DIFK7 16 DIFK5 DIFK8 DIFK7 17 DIFC6 DIFK8 DIFK7 18 DIFK5 DIFK8 DIFK7 19 DIFK5 DIFK8 DIFK7 10 DIFK7 11 DIFK5 DIFK8 DIFK7 12 DIFK7 13 DIFK9 DIFK9 DIFK7 14 DIFK9 DIFK9 DIFK7 15 DIFK9 DIFK9 DIFK7 16 DIFK9 DIFK7 17 DIFK9 DIFK9 DIFK9 18 DIFK9 DIFK9 DIFK9 20 DIFK9 DIFK9 DIFK9 21 DIFK9 DIFK9 DIFK9 22 DIFK9 DIFK9 DIFK9 23 DIFK9 DIFK9 DIFK9 24 WPK0 WPK1 WPK5 25 WPK6 WPK6 WPK7
	28	2 6	28 F1H33 F1H34 F1H35 27 F1H38 F1H37 F1H38 28 F1V10 F1V11 F1V12 29 F1V13 F1V14 F1V15 30 F1V16 F1V17 F1V20 31 F1V21 F1V22 F1V23 32 F1V24 F1V25 F1V28 CR20 A B C 1 +SCLK -SCLK +VD 2 +1/2SCLK -1/2SCLK -VD 3 +40 -10 1/4SCLK 5 DNN D1N D1N D1N 6 D3N D4N D4N	27 28 29 30 (+12V) (+12V) (+12V) 31 (A0ND) (A0ND) (A0ND) 32 (-12V) (-12V) (-12V) CN17 A B C 1 +SCLK +SCLK +VD 2 +1/2SCLK -1/2SOLK -VD 3 +WO -HD 1/4SCLK 4 RESETN BUSSP SYNC 5 DON DIN DIN 5 DIN DIN DIN	27 BODD BOD1 BOD2
2/2 CPU BUS	7 DaN DIN DIN DAN 8 DAN DISN DISN DISN 9 DISN DISN DISN 10 DISN A1 A2 11 A3 A4 A5 12 A6 A7 A8 13 AF A1D A11 14 A12 A13 A14 15 A15 A16 A17 16 A18 MERWN MERN 17 FIV27 FISP1 FISP2 18 F2H10 F2H11 F2H12 20 F2H16 F2H17 F2H16 21 F2H20 F2H21 F2H26 22 F2H23 F2H27 F2H26 24 F2H30 F2H27 F2H26 24 F2H30 F2H27 F2H26 24 F2H30 F2H27 F2H26	7 ONN DNN DNN DNN DNN BNN BNN BNN DNN DNN D	7 DeN DIN DIN DAN 8 DeN DIEN DIEN DIEN 9 DEN DIEN DIEN 10 DIEN DIEN DIEN 11 A3 A4 A5 12 A8 A7 A8 13 A9 A10 A11 14 A12 A13 A14 15 A15 A15 A18 A17 16 A18 MEMBEN MEMBEN 17 FIVET FISP1 FISP2 17 FIVET FISP1 FISP2 20 FEHLS FEHLS FEHLS 20 FEHLS FEHLS 21 FEHLS FEHLS 22 FEHLS FEHLS 23 FEHLS FEHLS 24 FEHLS FEHLS 25 FEHLS FEHLS 26 FEHLS FEHLS 27 FEHLS FEHLS 28 FEHLS FEHLS 29 FEHLS FEHLS 20 FEHLS FEHLS 21 FEHLS FEHLS 22 FEHLS FEHLS 24 FEHLS FEHLS 25 FEHLS FEHLS 26 FEHLS FEHLS 27 FEHLS FEHLS 28 FEHLS FEHLS 29 FEHLS FEHLS 21 FEHLS FEHLS 21 FEHLS FEHLS 22 FEHLS FEHLS 23 FEHLS FEHLS 24 FEHLS FEHLS 25 FEHLS FEHLS 26 FEHLS FEHLS 27 FEHLS FEHLS 28 FEHLS FEHLS 29 FEHLS FEHLS 21 FEHLS FEHLS 21 FEHLS FEHLS 22 FEHLS FEHLS 23 FEHLS FEHLS 24 FEHLS FEHLS 25 FEHLS FEHLS 26 FEHLS FEHLS 26 FEHLS FEHLS 27 FEHLS FEHLS 28 FEHLS FEHLS 38 FEHLS 38 FEHLS 38 FEHLS FE	7 0 NN 0 NN D NN 0 NN 8 D NN D NN D NN D	7
(2/2 LGHT)-	2	28 F2H35 F2H37 F2H38 27 F2Y10 F2Y11 F2Y12 28 F2Y13 F2Y14 F2Y15 29 F2Y15 F2Y17 F2Y20 30 F3Y21 F2Y22 F3Y23 31 F2Y24 F2Y25 F2Y28 32 F3Y27 F28P1 F2Y25 32 F3Y27 F28P1 F28P2 CR24 A B C 1 F3H10 F3H11 F3H12 2 F3H13 F3H14 F3H15 3 F3H16 F3H17 F3H18 4 F3H20 F3H21 F3H22 5 F3H23 F3H24 F3H25 5 F5H23 F3H24 F3H25	26 F2M36 F2M37 F2M38 27 F2V10 F2V11 F2V12 28 F2V13 F2V14 F2V15 29 F2V16 F2V17 F2V20 30 F2V21 F2V22 F2V23 31 F2V24 F2V25 F2V25 32 F2V27 F28P1 F28P2 CM21 A B C A B C 1 F3M10 F3M11 F3M12 2 F3M13 F3M14 F3M15 3 F3M16 F3M17 F3M18 4 F3M20 F3M21 F3M25 5 F3M23 F3M24 F3M25	2 6 27 28 28 29 30 30 31 31 32 A B C 1 BDY0 SDY1 SDY2 2 SDY3 SDY4 SDY5 3 SDY6 SDY7 4 SD00 SDC1 SD00 5 SD03 SDC4 SD00 6 SD00 SDC6 SD00 6 SD00 SD00 SD00 6 SD00 SD00 SD00	2 8
(2/2 F3HV)-	6 FAH28 F3H27 F3H28 7 F3H30 F3H31 F3H32 8 F3H33 F3H34 F3H35 9 F3H38 F3H37 F3H38 10 F3H10 F3H11 F3H12 11 F3H10 F3H14 F3H15 12 F3H18 F3H17 F3H20 13 F3H21 F3H27 F3H20 14 F3H21 F3H25 F3H20 15 F3H21 F3H25 F3H20 16 RHCHTD RHCHTI BHCHTZ 17 RHCHT3 RHCHTI BHCHTZ 17 RHCHT3 RHCHTI RHCHTZ 19 WHO NVO WELK 20 F8HM0 F8HM1 FLD 21 FDFR TMDFR WINH 22 OPSELO OPSELI WINH 22 OPSELO OPSELI WINH	6 F5H26 F5H27 F3H28 7 F5H30 F5H31 F5H32 8 F5H33 F5H34 F5H35 9 F5H38 F5H37 F3H38 10 F3V10 F3V11 F3V12 11 F3V13 F5V14 F3V15 12 F3V15 F5V14 F3V15 13 F3V21 F3V22 F3V23 14 F5V22 F3V23 F3V28 15 F5V27 F5V27 F3V28 16 RICHTO RICHTI RICHTI 17 RICHTS RVCHTS RVCHTS RVCHTS 18 RVCHTS RVCHTS RVSP 19 WHO RVC WBLK 20 F5M0 F5M1 F5M2 21 FDFR 7M0FR WINN 22 OPSELO OPSEL1 MTMO	8 FPH26 FSH27 FSH28 7 FSH30 FBH31 F3H32 8 FSH33 FSH34 FSH32 9 FSH33 FSH34 FSH35 10 F3V10 FSV11 F3V12 11 F3V13 FSV14 FSV15 12 F3V16 FSV17 F3V20 13 FSV21 F3V22 F3V20 14 FSV21 F3V25 F3V28 15 F3V21 F3V25 F3V28 16 F3V27 F3V2 F3V28 17 F3V27 F3V2 F3V28 18 RHCNTD RHCNTT RHCHT2 18 RHCNTD RHCNTT RVCHT3 RVCHT3 18 RHCNT2 RVCHT3 RVCHT3 RVCHT3 19 WHO NVO WSLK 20 FRM0 FRM1 FLD 21 FDFR 7MOFR WINH 22 OPSELO OPSEL1 MTM0 23 MTM1 MTM2	7 BDK0 BDK1 BDK2 8 BDK3 BDK4 BDK5 9 BDK6 BDK7 10 11 12 13 14 15 16 17 19 20 21	7 BDK0 BDK1 BDK2 8 BDKS BDK4 BDK5 9 BDK6 BDK7 10 11 12 13 14 15 18 17 MOTO MOT1 MOT2 18 MOTS 19 20 21 22 23 24
	2 4 25 MEMKO MEMK1 MEMK2 26 MEMKO MEMK4 MEMK5 27 MEMK3 MEMK4 MEMK5 28 MEMK9 MEMK7 29 30 31 32 GND GND GND GND	2 4 2 5 2 6 MEMCO MEMC1 MEMC2 2 7 MEMC3 MEMC4 MEMC5 2 8 MEMC9 MEMC7 2 9 STORM	24 25 26 MEMYO MEMY1 MEMY2 27 MEMY3 MEMY4 MEMY5 28 MEMY8 MEMY7 29 30 31 31 32 GND GND GND	23 24 25 26 27 28 29 30 31 32 GND GND GND GND GND	25 26 27 28 30 30 31 32 GNO GNO GNO

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MB-305;MOTHER BOARD

CNS2 A B C GND	CN46 A B C 1 GND GND GND GND 2 GND GND GND GND 3 GND GND GND GND 4 +5V	C0143 A S C C 1 A S C C 1 A S C C 1 A S C C 1 A S C C C C C C C C C C C C C C C C C C
A S C C C C C C C C C	CNS9 A B C A B C C A B C C C C C C C C C C C	A B O
1	CNS1 *1 A B C 1 1 RXQ TXD DSSR 2 3DRX1 3DRX1 3DRX2 2 2 RTS CTS DTR 2 3DRX3 3DRX1 3DRX5 3DRX1 3DRX5 3 3 DRX1 3DRX2 3DRX1 3DRX4 3DRX5 3 4 AG AG AG AG 4 3DRX3 3DRX10 3DRX11 5 5 R G S S S S S S S S S S S S S S S S S S	CN46 A B C

MB-305(2/2) MB-305(2/2)

CN40 B C GND GND GND GND GND +SV +SV +SV +SV +SV +SV VSIGN	CN37 A B C 1 GND	A	A	CN28 A 8 C 1 GND GND GND 2 GND GND GND 3 GND GND GND 4 +39 +39 +59 +59 +59 +59 +59 +59 +59 +59 +59 +5
DN41 S	A B C	A B C C	CRIE A B C 1 + SCLK + SCLK + VO 2 + 1728CLK - 1728CLK - VD 3 44D - HD 1748CLK 4 RESETN BUSSP SYNC 5 DAN DIN DEN DEN 6 DEN DEN DEN 7 DEN DEN DEN DEN 8 DEN DEN DEN 9 DEN DEN DEN 10 DEN DEN DEN 11 A3 A4 A5 11 A3 A4 A5 12 A6 A7 A8 13 A9 A10 A11 14 A12 A13 A14 15 A15 A15 A18 A17 15 A15 A15 A18 A17 17 SORZE SO	A B C C
CN42 B C 3DRX1 3DRX2 3DRX1 3DRX2 3DRX1 3DRX5 3DRX1 3DRX8 3DRX1 3DRX8 3DRX1 3DRX1 3DRX1 3DRX1 3DRX13 3DRX14 3DRY1 3DRY2 3DRY1 3DRY2 3DRY1 3DRY2 3DRY1 3DRY2 3DRY1 3DRY1 3DRY1 3DRY1 3DRY1 3DRY1 5DRY1 3DRY1 3DRY1 4 5P1 SP2 5P4 SP8 5P7 SP8 5P7 SP8 5P7 SP8 5P1 SP1 SP1 5P1 SP1 SP1 5P1 SP1 SP1 SP1 5P1 SP1 SP2 5P1 SP2 5P2 SP23 5P23 SP23 5P24 SP23 5P25 SP26 5P27 SP28 5P28 SP28 5P29 SP29 5P39 SP26 5P39 SP26 5P40 SP41 5P43 SP44 5P46 SP47 GND GND	CN36 A B C 1 30RX0 3DRX1 3DRX2 2 30RX1 3DRX2 3 3DRX4 3DRX4 10RX5 3 3DRX6 3DRX7 3DRX6 3 3DRX6 3DRX7 3DRX6 4 3DRX8 3DRX10 3DRX11 5 3DRX11 3DRX13 3DRX11 5 3DRX15 3DRX15 7 3DRX15 7 3DRX16 3DRX13 3DRX1 8 3DRX16 3DRX17 3DRX1 10 3DRX18 3DRX1 3DRX1 3DRX1 11 3DRX12 3DRX13 3DRX1 11 11 3DRX12 3DRX13 3DRX11 3DRX11 11 3DRX12 3DRX13 3DRX11 11 12 3DRX15 3DRX15 3DRX11 3DRX11 13 3DRX15 3DRX15 3DRX16 3DRX11 11 14 15 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CN36 A B C 1 30RX0 30RX1 30RX2 2 30RX3 30RX4 30RX5 5 30RX8 30RX7 30RX8 4 30RX9 30RX7 30RX8 4 30RX9 30RX1 30RX1 5 5 30RX12 30RX13 30RX14 6 5 30RX12 30RX13 30RX14 6 5 30RX15 30RY1 30RY2 7 30RY9 30RY4 50RY5 8 30RY2 30RY4 50RY5 9 30RY4 30RY7 30RY4 10 30RY9 30RY4 50RY5 11 30RY12 30RY13 30RY11 11 30RY12 30RY13 30RY14 12 30RY15 13 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CRES A B C 1 2 3 3 4 4 5 5 6 6 7 7 8 9 9 10 10 11 12 13 14 15 15 18 17 RHCNT0 RHCNT1 RHCNT2 18 RHCNT3 RYCNT2 19 RYCNT3 RYCNT1 RYCNT2 20 RYCNT3 RYSP FLD 21 22 22 23 24 RHAD0 RYAD1 RYAD1 25 RHAD5 RHAD6 RHAD6 26 RHAD6 RHAD7 RHAD6 27 RHAD8 RHAD7 RHAD6 28 RHAD8 RHAD7 RHAD6 29 RYAD6 RYAD1 RYAD2 20 RYAD6 RYAD1 RYAD2 21 RYAD6 RYAD1 RYAD2 22 RAYD0 RYAD1 RYAD2 23 RYAD6 RYAD1 RYAD2 24 RYAD6 RYAD1 RYAD2 25 RYAD6 RYAD1 RYAD2 26 RYAD6 RYAD1 RYAD2 27 RHAD8 RYAD7 RYAD2 28 RYAD6 RYAD1 RYAD2 31 RYAD6 RYAD7 RYAD8	SORZ 1/2 RHVONT 1/2

MB-305(2/2)

FRAME

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 \triangle GEN LOCK HARNESS(DC1) HARNESS(MB1) + 5V CN61 + 5V + 5V + 5V CN62 1 CN63 GND GND GND Y/VBS IN R-Y IN GND GND 9 9 10 10 11 11 + 5V GND GND B-Y IN KEY IN GND GND GND GND EWS600 13 13 + 5V + 5 V + 5V Y/VBS OUT 1 R-Y OUT 1 C N 6 6 15 15 + 5 V + 5V B-Y OUT 1 KEY OUT 1 CN67 17 17 18 18 19 19 GND GND + 5V Y/VBS OUT 2 R-Y OUT 2 GND CN68 B-Y OUT 2 KEY OUT 2 AC N GND GND EWS50 DSV IN GND DSK IN GND DSV OUT 1 DSV OUT 2 C N 7 2 DSK OUT 1 DSK OUT 2 GND CN73 1 CN74 0 V - 1 2 V + 5V 4 4 CN4
O DSK LE-76 1 LWT-4HA-522 CN5 KEY GND SENSE1 2 2 PS THRM GND FAN2 FAN2 FAN2 3 3 4 4 FAN3 FAN3 CN7 KEY - 5 V 13 13 CN-456 CN8 20 2 1 2 4 + 12V 2.5 CN9 KEY GND -12V 2 6 DSV OUT 1 DSV OUT 2 GND DSK OUT 2 CN10 R-Y 30 DSK OUT 1 MB - 305

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	CN3(TO CN9/MB-305)		AN 465	CN2(TO CN51/MB-305)			
С	1 GND GND	C GND	CN-462	1 GND	B C GND GND	CN4	CNS
	1 GND GND 2 GND Y IN	GND	!	2 TY1.	(TXC1+) RX1+		
	3 GND GND	GND	1	3 TX1-	(TXC1-) RX1-	14002	6 0 1
	4 GND GND	GND		4	(RXC1+) (RXC1-)	15003	
	5 C IN	GND	1	5 GND	GND GND	15 0 0 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 0 0 2 3 CONSOLE 9 0 4
	6 GND GND	GND		6 TX2+	(TXC2+) RX2+	1 0 0 5	9 0 0 5
	7 GND GND	GND	İ	7 TX2-	(TXC2-) RX2-	10006	
	8 GND KIN			8	(RXC2+) (RXC2-)	20 0 7 TERMINAL 1	
	9 GND GND	GND	1	9 GND	GND GND	2 1 O 8 (DSC58)	
	1 0 GND GND	GND	1	1 0 TX3+	(TXC3+) RX3+	2 2 0 0 9	
GND	11 Z IN	GND	1	11 TX3-	(TXC3-) RX3-	23 0 0 1 0	CN11
R-Y IN	1 2 GND GND	GND		12	(RXC3+) (RXC3-) GND GND	2 4 0 0 0	
GND	1 3 GND GND 1 4 GND Y OUT 1	GND		1 3 GND 1 4 TX4+	(TXC4+) RX4+	1 10 1131	6 0 0 1
KEY IN	1.5 GND GND	GND		15 TX4-	(TXC4-) RX4-		7 0 0 2
GITD	16 Y OUT 2	GND		16	(RXC4+) (RXC4-)		8 0 3 EDITOR
GND	17 GND GND	GND		1 7 GND	GND GND		
R-Y OUT 1	18 GND C OUT 1			18 GPI01	GPI01G GPI11	CN5	5
GND	1 9 GND GND	GND	ı	19 GPI02	GPI02G GPI12		
KEY OUT 1	2 0 GND C OUT 2	GND	1	2 0 GP103	GP103G GP113	14001	
GND	2 1 GND GDN _	GND	1	2 1 G P I 0 4	GPI04G GPI14	15002	
R-Y OUT 2	2 2 GND K OUT 1		Ì	2 2	GPIIG	18003	CN13
GND	2 3 GND GND	GND	1	2 3		17004	
KEY OUT 2	24 K OUT 2	GND	ı	2 4		18005	[. 60]1
GND GND	2 5 GND Z OUT 1	GND	1	2 6		1 4 0 0 2 1 5 0 0 3 1 6 0 0 4 1 7 0 0 5 1 8 0 0 6 1 9 0 0 7 TERMINAL 2 (CPUS2) 2 1 0 0 8 (CPUS2) 2 2 0 0 1 0 2 3 0 1 1 2 4 0 0 1 2 2 5 0 1 3	8 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
DSK IN	2 7 GND GND	GND	1	27		20 0 8 (CPU82)	8 0 3 AUX 1
GND	28 Z OUT 2	GND	1	2 8		21009	9 0 0 4
DSV OUT 2	2 9 GND GND	GND	1	2 9		2 0 10	ا رگی ا
GND	3 0		1	3 0 RXD	TXD	24 0 0 1 1	
DSK OUT 2	3 1		·	3 1		2 5 0 1 2	
GND	3 2 GND GND	GND	i	3 2 GND	GND GND	3	CN15
C	CN4 O DSK IN O DSK IN O DSV IN CN5 KEY OUT 2 O DSV IN CN6 R-Y OUT 2 CN13 B-Y OUT 2 CN14 Y/V8S OUT 2 CN8 O R-Y OUT 1 CN15 C	CN18 ○ Y/VBS IN ○ CMBY OUT 1 CN28 ○ CMBY OUT 1 CN28 ○ CMBK IN CN20 ○ CMBY IN CN27 ○ CMBY IN CN27 ○ CMBY IN CN27 ○ CMBY IN CN28 ○ CMBY OUT 1	CN32 CMBC OUT 2 CN33 CMBY OUT 2 CN34 CMBZ IN CN35 CMBC IN	A 1	B C TXD	CNS S	6 0 1 2 3 4 5 5 4 5 5
DSV OUT 2 GND DSK OUT 2	CN8 CN16 CN16 Y/VBS OUT 1 CN10 CN17 R-Y IN B-Y IN	CN23 CMBK OUT 1 CN30 CMBZ OUT 2 CN24 CN31 CMBC OUT 1 CMBK OUT 2	1	2 3 2 4 2 5 2 6 GND 2 7 SYNC 2 8 GND 2 9 R 3 0 GND 3 1 GND 3 2 GND 3 2 GND	GND GND G B GND GND COMP OUT GND GND GND GND GND		CN-463

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SECTION 9 PRINTED CIRCUIT BOARD

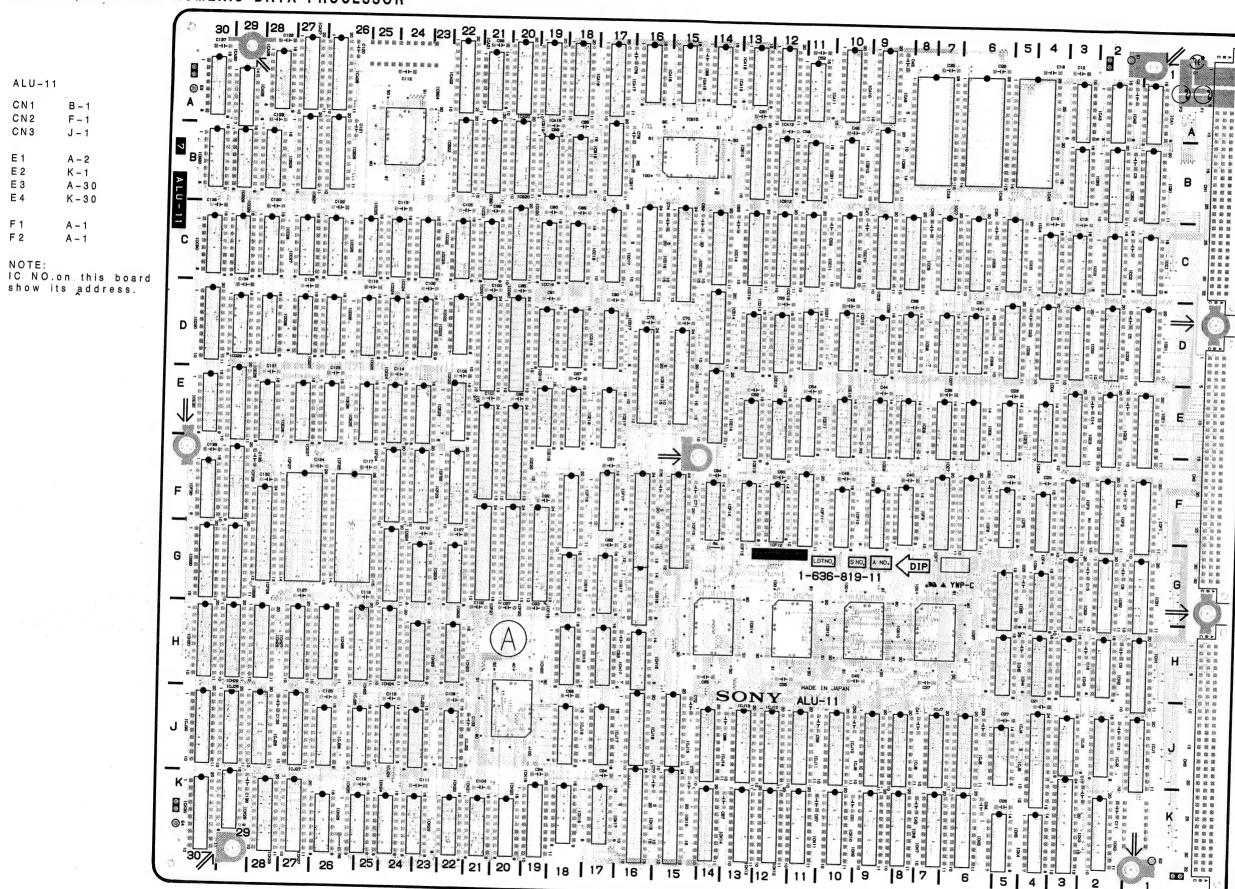
ALU-11; REALTIME NUMERIC DATA PROCESSOR

E 1

E 2

E 3

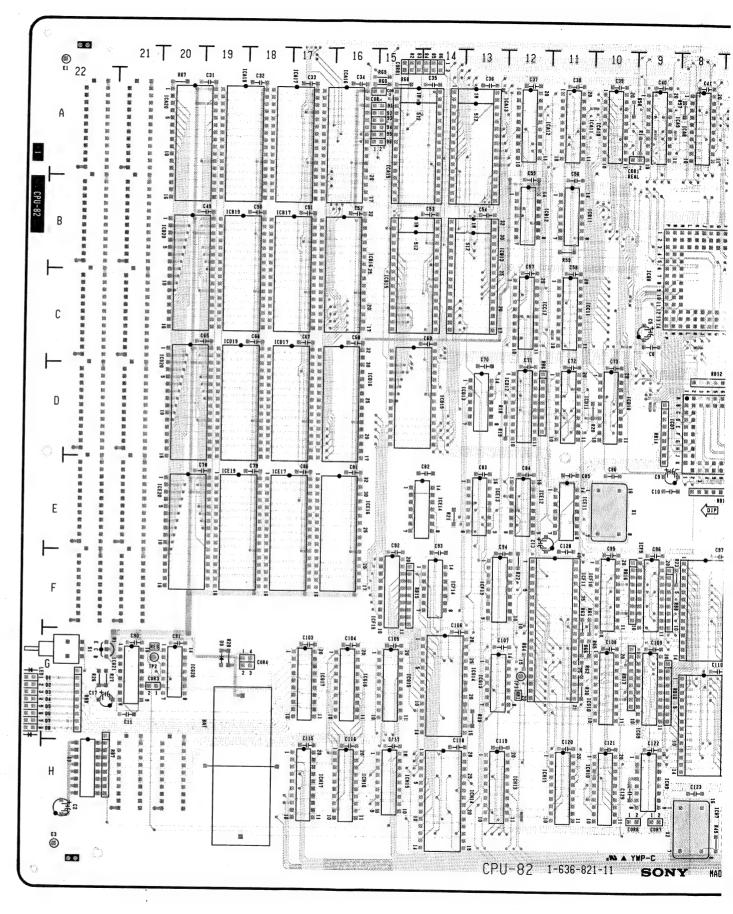
F 1 F 2

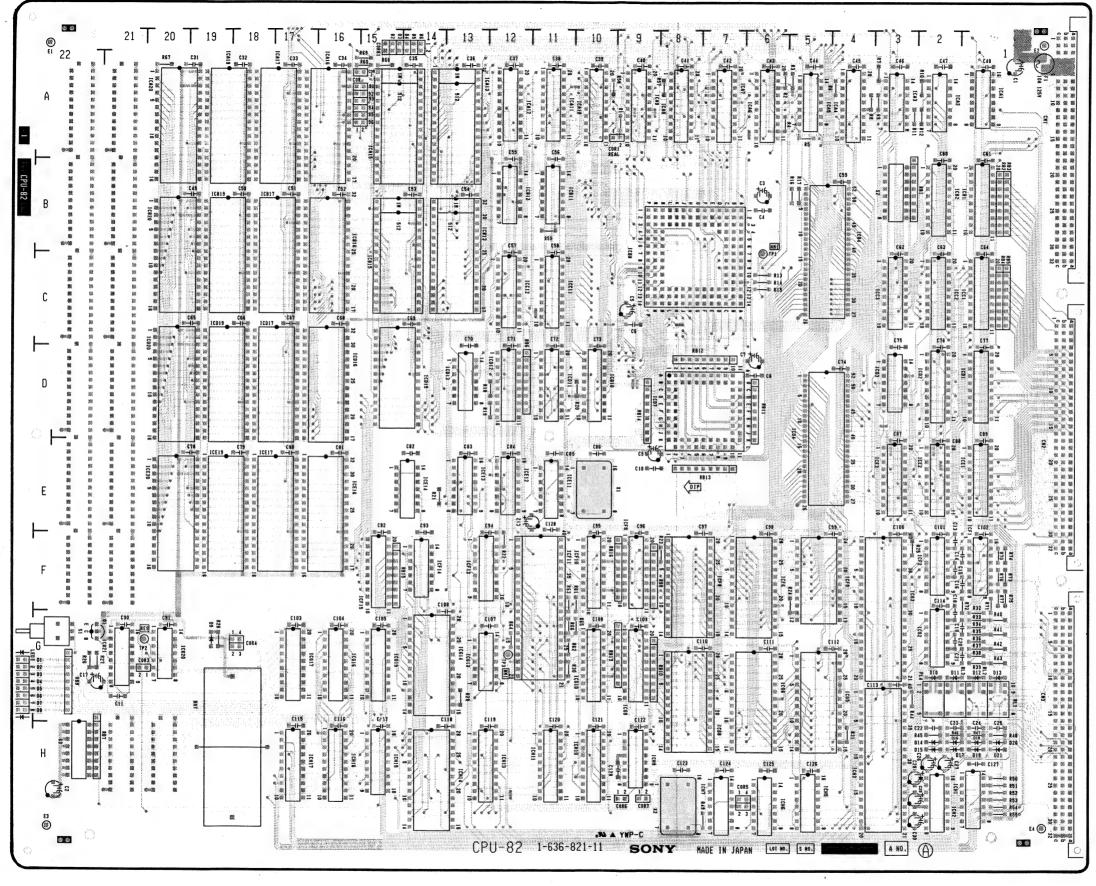


ALU-11 -A SIDE-1-636-819-11 DME-5000-(J,UC)

CPU-82;SYSTEM CONTROL AND COMMUNICATION

CPU-8	2		
CN1	A – 1	RB1	B – 2
CN2	E – 1	RB2	B – 1
CN3	G – 1	RB3	B – 1
		RB4	C - 1
COR1	A – 10	RB5	C - 1
COR2	A – 15	RB6	C-12
COR3	G - 21	RB7	H – 21
COR4	G – 18	RB8	F – 8
COR5	H – 7	RB9	G-22
COR6	H – 9	R B 1 0	G – 8
COR7	H – 9	RB11	D – 6
COR8	A - 15	RB12	D – 8
COR9	A – 16	RB13	E - 7
D 1	0 00	RB14	D-9
D 2	G-22	RB15	F-14
D 3	G-22	RB16	F-10
D 4	G-22	RB17	G – 10
D 4 D 5	G – 22 G – 22	DV1	C 4
D 6	G-22	RY1 RY2	G - 1
D7	G-22	RY3	G – 1 G – 1
D 8	G-22	RY4	G-2
D 9	G-19	11.14.	u-2
D 1 0	G-2	S 1	G-22
D11	G - 2	S 2	B-3
D12	G – 1	S 3	H-22
D 1 3	G – 1		
D 1 4	H – 2	TP1	C-6
D 15	H – 2	TP2	G-21
D 16	H – 2	TP3	G-12
D17	H – 2		
D18	H – 1	X 1	E – 9
D19	H – 1	X 2	H – 9
D 2 0	H – 1		
D 2 1	H – 1		
E 1	A - 22		
E 2	A - 1		
E 3	H-22		
E 4	H-1		
F 1	A – 1		
0.1	0 01		
Q1	G – 21		
NOTE: IC NO.	on this	board	
	ts addre		





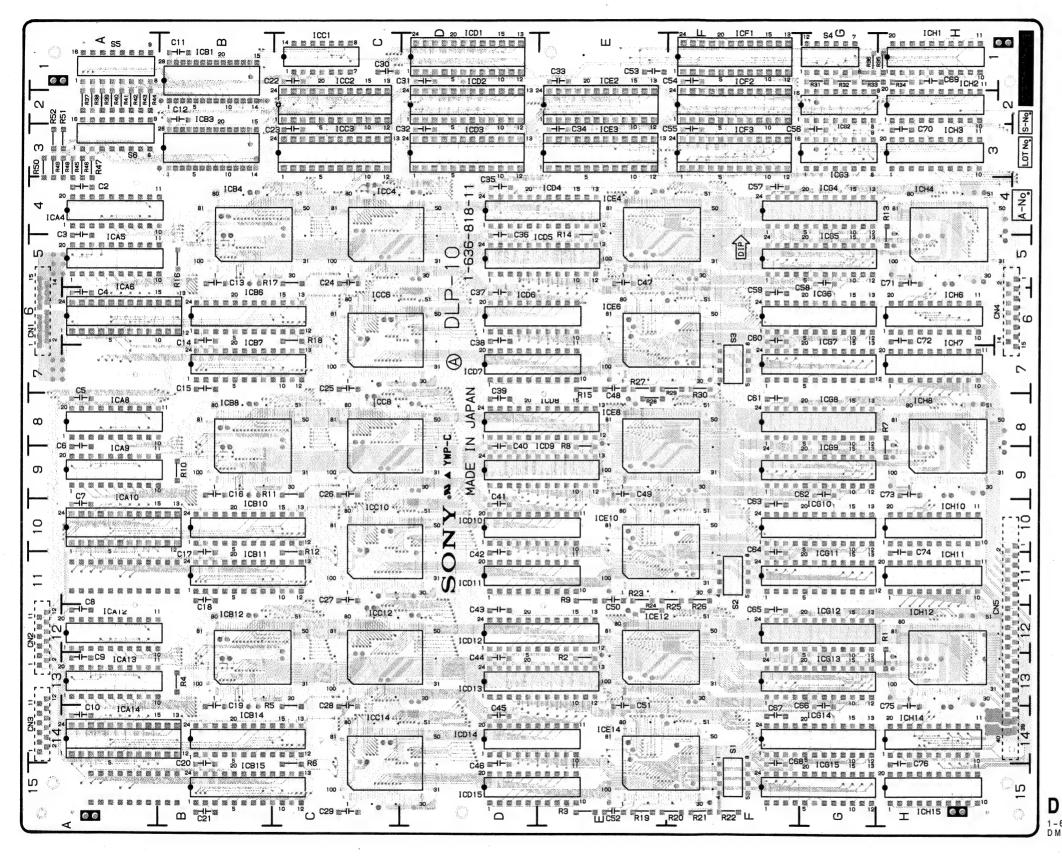
CPU-82 -A SIDE-

DLP-9; HORIZONTAL AND VERTICAL LOW PASS FILTER

DLP-9 CN1 E - 1 CN2 CN3 J - 1 CN4 A - 14 CN5 A - 21 CN6 A - 23 CN7 K-14 CN8 K - 21 E 2 K – 1 E 3 A - 24 E 4 J - 25F 2 A – 2 RB1 RB2 RB3 A – 6 RB4 A – 5 RB5 G – 8 RB6 J – 8 S 1 F-26 G-26 S 2 S 3 A-26 B-26 S 4 NOTE: IC NO.on this board show its address. SONY MADE IN JAPAN

DLP-9 -A SIDE-1-636-817-11 DME-5000(J,UC)

DLP-10; IIR VERTICAL LOW PASS FILTER



DLP-10 *CN1 A - 6 *CN2 A - 12 *CN3 A - 14 * C N 4 H - 6 * C N 5 H-12 S 1 F-14 S 2 F-11 F - 6 S 3 G - 1 S 5 A - 1S 6 A - 2 NOTE: IC NO.on this board show its address. *:B SIDE

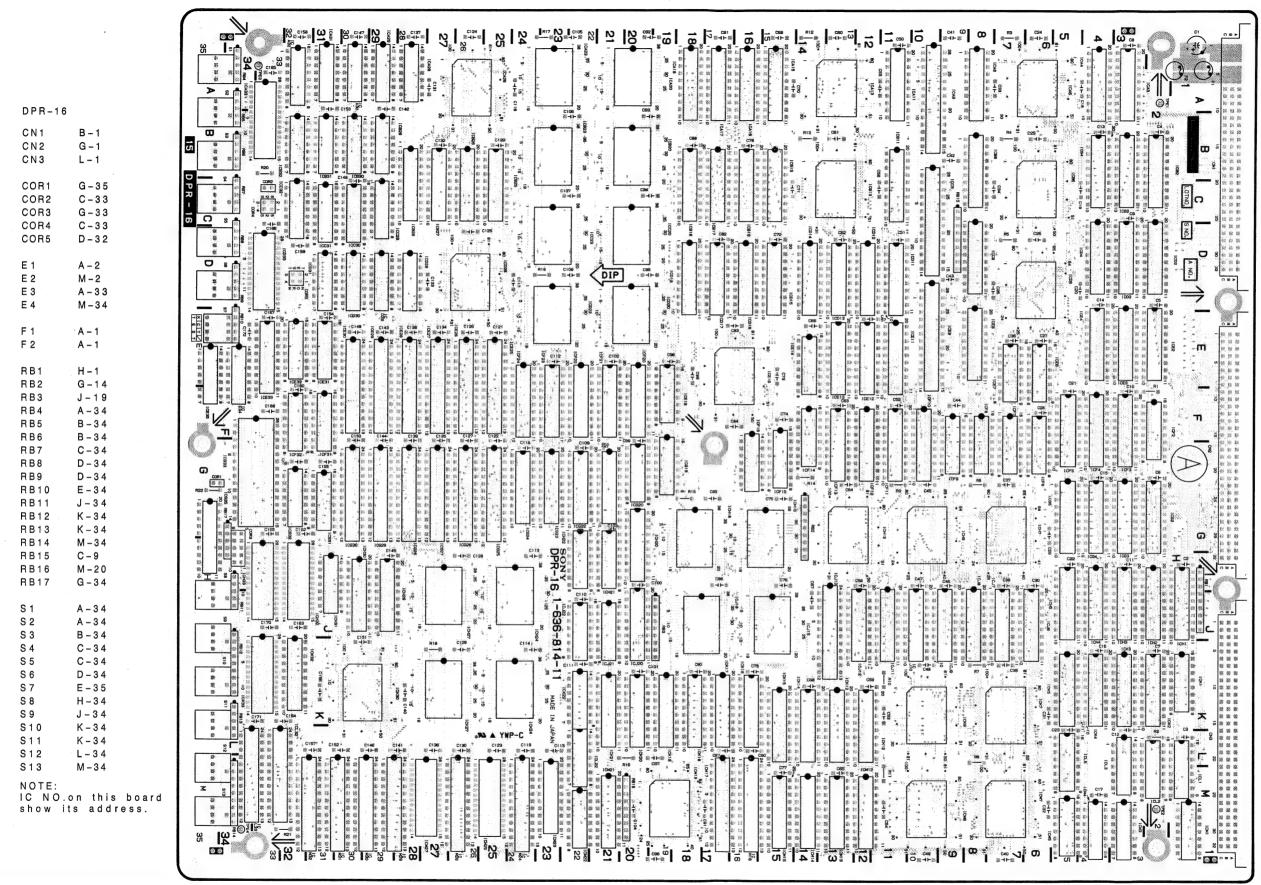
DLP-10 -A SIDE-1-636-818-11 DME-5000(J,UC)

DPR-15; INPUT PIXEL EFFECT GENERATOR AND MONITOR DETECT

	32 T 31 T 30 T 29 28 27 T 26 T 23 T 22 T 21 T 20 T 19 T 18 T 17 T 16 T 15 T 14 T 13 T 12 T 11 T 10 T 9 T 8 T 7 T 6 T 5 T 4 T 3 T 2 T 1 T 10 T 9 T 8 T 7 T 6 T 5 T 4 T 3 T 2 T 1 T 10 T 9 T 8 T 7 T 6 T 5 T 4 T 3 T 2 T 1 T 10 T 9 T 8 T 7 T 6 T 5 T 4 T 3 T 2 T 1 T 10 T 9 T 8 T 7 T 6 T 5 T 4 T 3 T 2 T 1 T 10 T 9 T 8 T 7 T 6 T 5 T 4 T 3 T 2 T 1 T 10 T 9 T 8 T 7 T 6 T 5 T 4 T 3 T 2 T 1 T 10 T 9 T 8 T 7 T 6 T 5 T 4 T 3 T 2 T 1 T 10 T 9 T 8 T 7 T 6 T 5 T 4 T 3 T 2 T 1 T 10 T 9 T 8 T 7 T 6 T 5 T 4 T 3 T 2 T 1 T 10 T 9 T 8 T 7 T 6 T 5 T 4 T 3 T 2 T 1 T 10 T 9 T 8 T 7 T 6 T 5 T 4 T 3 T 2 T 1 T 10 T 9 T 8 T 7 T 6 T 5 T 4 T 3 T 2 T 1 T 10 T 9 T 8 T 7 T 6 T 5 T 4 T 3 T 2 T 1 T 10 T 9 T 8 T 7 T 6 T 5 T 10 T 10 T 9 T 8 T 7 T 6 T 5 T 10
	1122 - C11122 - C1112
	# # 10
DPR-15	A 28
CN1 B-1 CN2 E-1	■ 第 4 6 6 6
CN3 J-1	THE TRANSPORT OF THE PROPERTY
E 1 A – 1 E 2 K – 1	C C C C C C C C C C
E 3 A - 32	
E 4 K – 32	9 B. crisi 8 crise 1 crise 2 c
F 1 A – 1 F 2 A – 1	
RB1 B-32	C = 08 08 08 08 08 08 08 08 08 08 08 08 08
RB2 E-31 RB3 E-31	10 10 10 10 10 10 10 10
RB4 A-31	
RB5 F - 1 RB6 F - 1	
RB7 G-31 RB8 G-31	- W Cor Red
S1 C-32	
S 2 E - 3 1 S 3 E - 3 2	
S 4 D – 3 1 S 5 D – 3 1	The second control of
S 6 C – 32	
NOTE: IC NO.on this board	
show its address.	6 7 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	T
	10 10 10 10 10 10 10 10
	G = 1
•	Column C
	H 10-24 (13) 10-12
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	To To To To To To To To
	5 9
	C37 C76 C34 L C45 C37 C76 C34 L C45 C37 C76 C34 C37 C76 C37 C76 C34 C37 C76 C3
	32 <u>1</u> 31 30 <u>1</u> 29 <u>1 28 1 27 26 1 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 16 5 4 3 2 2 1 2 2 2 2 2 2 2</u>

DPR-15 -A SIDE-

DPR-16; OUTPUT RECURSIVE EFFECT GENERATOR AND BORDER GENERATOR



DPR-16 -A SIDE-1-636-814-11 DME-5000(J,UC)

DPR-17; MEMORY ADDRESS SELECTOR AND WRITE ADDRESS GENERATOR

	9 8 7 6 5 4 3 2 2 1 2 2 3 3 3 3 3 3 3 3
DPR-17	## 1
CN1 B-1 CN2 E-1 CN3 H-1	8 8 8 8 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6
COR1 F-9 COR2 E-11 COR3 E-11	
DL1 F-11 E1 A-2 E2 J-1	
E 3 A - 1 9 E 4 J - 1 9 F 1 A - 1	
RB1 A-13 RB2 B-13	
RB3 A-14 RB4 F-19 SW1 A-19	A NO. SALAYAP-C SECOND SNO. SNO. SNO. SNO. SNO. SNO. SNO. SNO.
SW2 B-19 SW3 C-19 SW4 D-19 SW5 D-19	
SW6 E-19 SW7 F-19 NOTE: IC NO.on this board show its address.	The column The
	8 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
	© 19 18 17 16 15 14 13 12 11 ····10 9 8 7 6 5 4 3 2 1 1 1 1 1 1 1 1 1

DPR-17 -A SIDE-

DPR-18; READ ADDRESS GENERATOR AND SPLIT MIRROR GENERATOR

	23 22 21 20 19 18 5 17 16 15 14 13 12 11 10 9 8 7 6 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
DPR-18 CN1 B-0 CN2 E-0	
CN3 H-0 COR2 B-19	Company Comp
E 1 A - 1 E 2 H - 1 E 3 A - 2 6 E 4 H - 2 6	
F 1 A - 0 F 2 A - 0 RB1 A - 17	
RB2	
S 2 A - 2 5 S 3 B - 2 5 S 4 B - 2 5 S 5 B - 2 5 S 6 C - 2 5	SONY SONY 1-636-816-11 MADE IN JAPAN
S7 C-26 S8 F-25 NOTE: IC NO.on this board	
show its address.	
	F # # # # # # # # # # # # # # # # # # #
	No. DIP
	NO. DIP
	H 8
	26 25 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 8 7 6 5 4 3 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

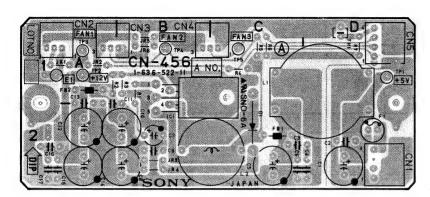
DPR-18 -A SIDE-

MEM-41;3 FIELD VIDEO MEMORY AND INTERPOLATOR

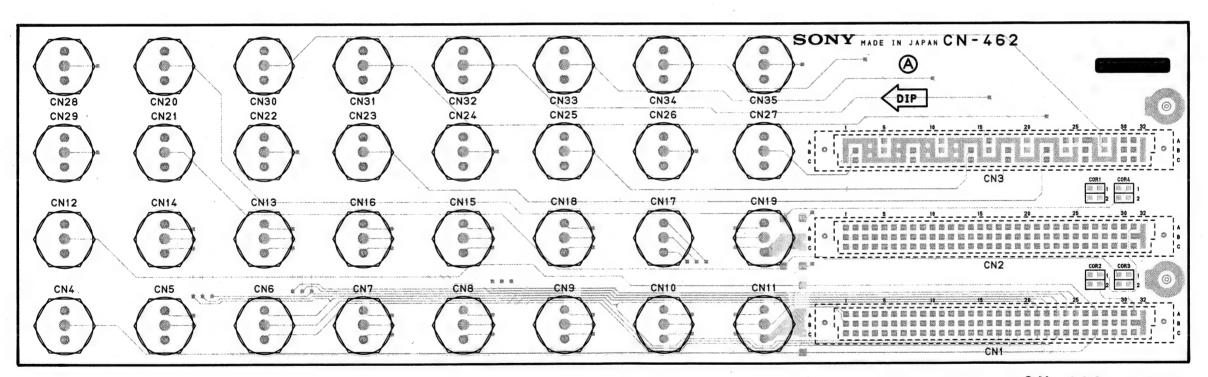
	20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
MEM-41 CN1 B-1 CN2 E-1 CN3 H-1	1
COR1 J-5 COR2 G-12 COR3 H-12 DL1 H-13 E1 A-2 E2 J-1 E3 A-20	N
E4 J-20 F1 A-1 F2 A-1 S1 J-20 NOTE: IC NO.on this board show its address.	## ## ## ## ## ## ## ## ## ## ## ## ##
	Compared Compared
	No
	Ha a a a a a a a a a a a a a a a a a a

MEM-41 -A SIDE-1-636-820-11 DME-5000(J,UC)

CN-456; POWER SUPPLY CONNECTOR BOARD CN-462; BNC CONNECTOR BOARD

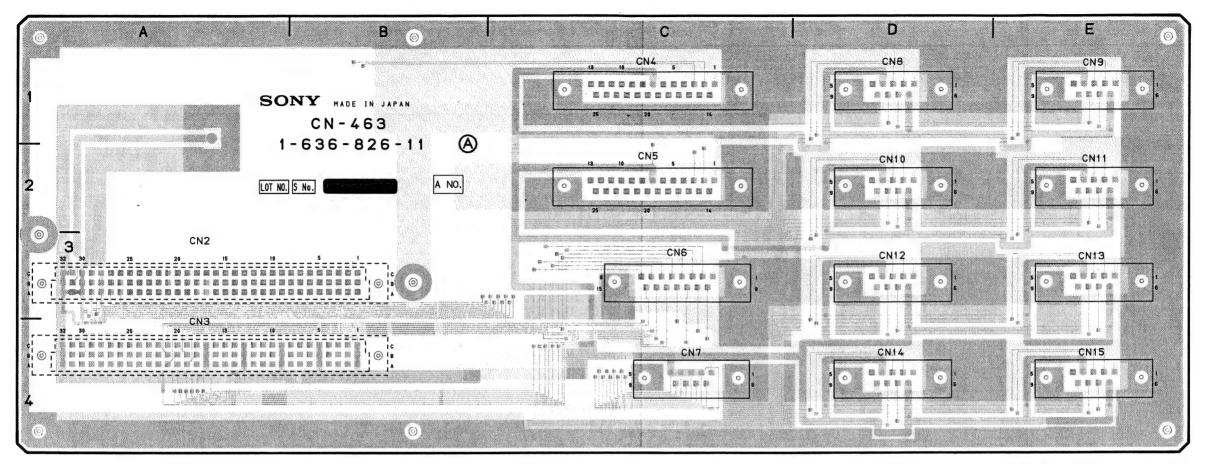


CN-456 -A SIDE-1-636-522-11 DME-5000(J,UC)



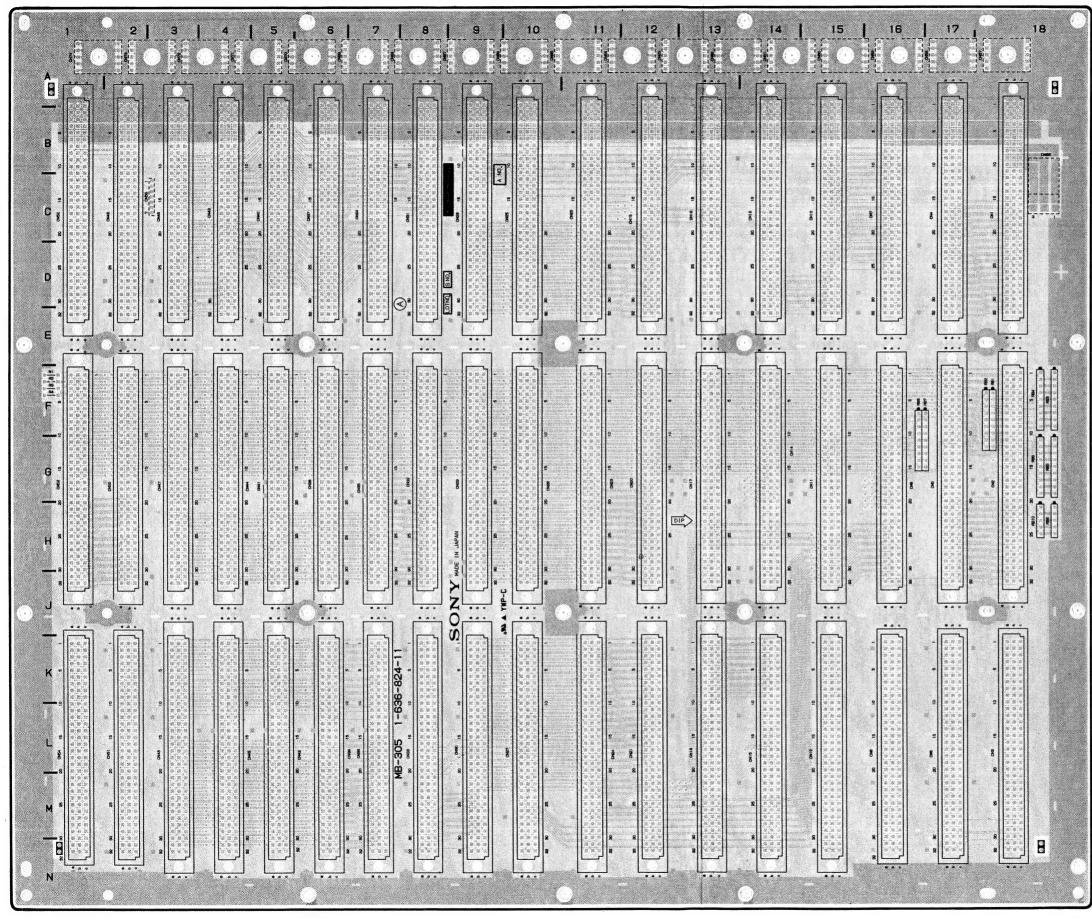
CN-462 -A SIDE-1-636-825-11 DME-5000(J,UC)

CN-463;D SUB CONNECTOR BOARD



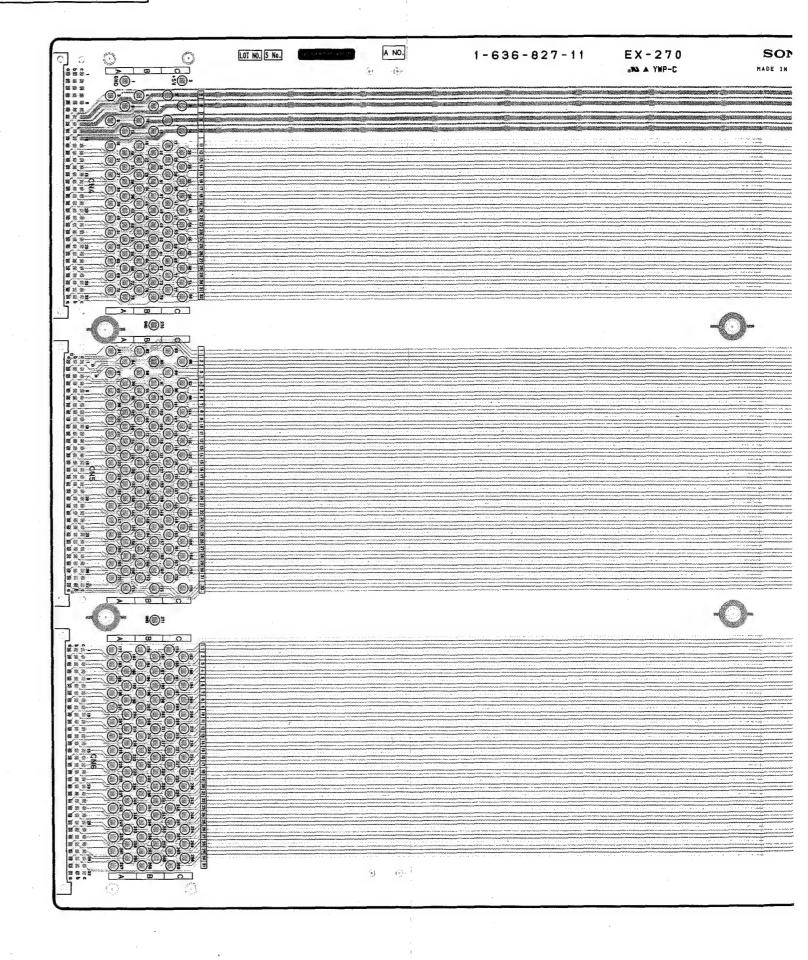
CN-463 -A SIDE-

MB-305;MOTHER BOARD



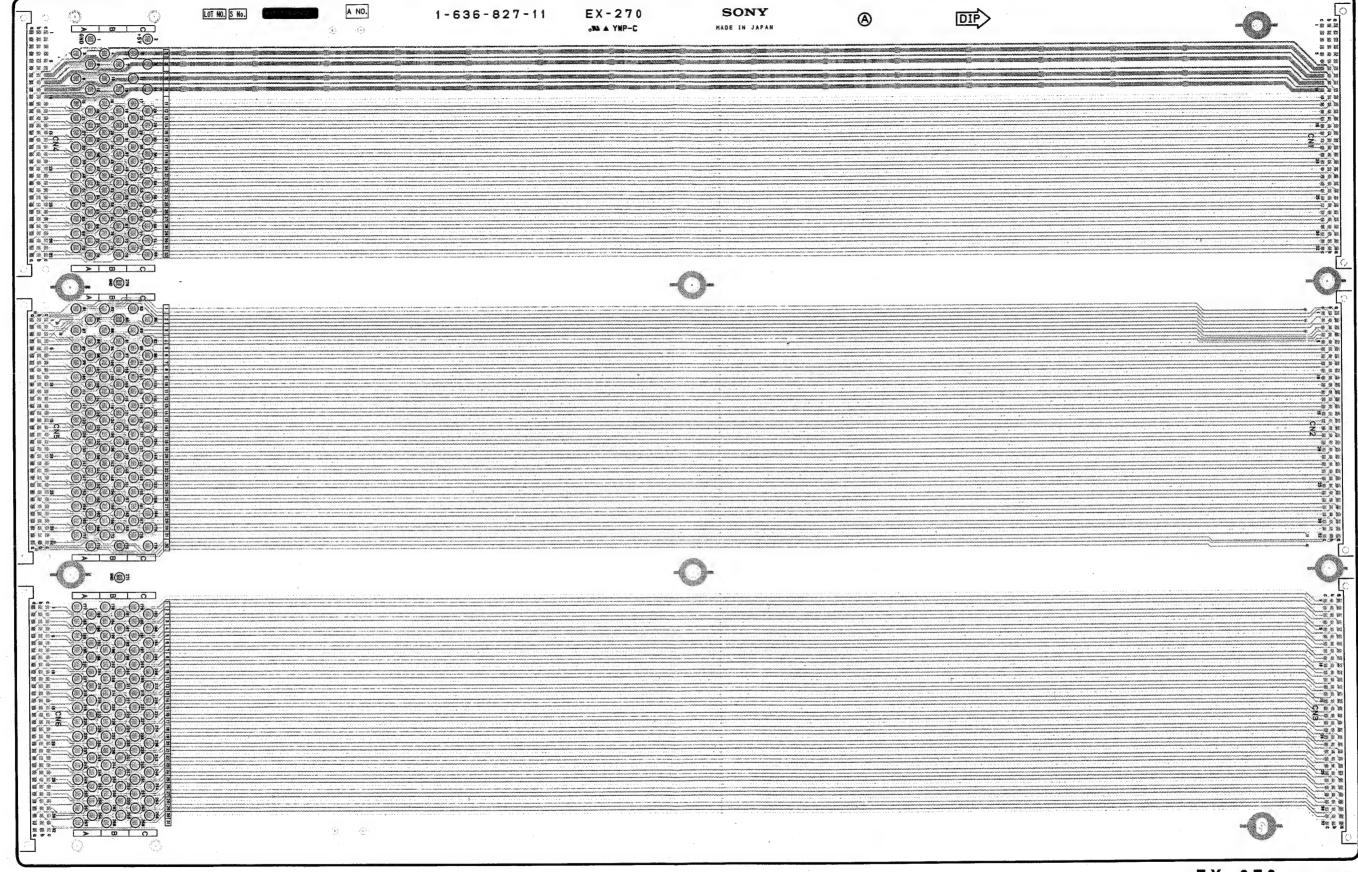
MB-305 -A SIDE-

EX-270; EXTENSION BOARD



0 54

9 - 5 2



EX-270 -A SIDE-1-636-827-11 DME-5000(J,UC)

9 - 5 3

9 - 5 2

SECTION 10 SPARE PARTS

10-1. PARTS INFORMATION

10-2. EXPLODED VIEW

The shaded and
 <u>A</u> marked components are critical to safety.

 Replace only with same components as specified.

 10-2-1. Chassis (1)
 P10-3

 10-2-2. Chassis (2)
 P10-5

 10-2-3. Power Unit
 P10-7

 10-2-4. Rear Panel
 P10-9

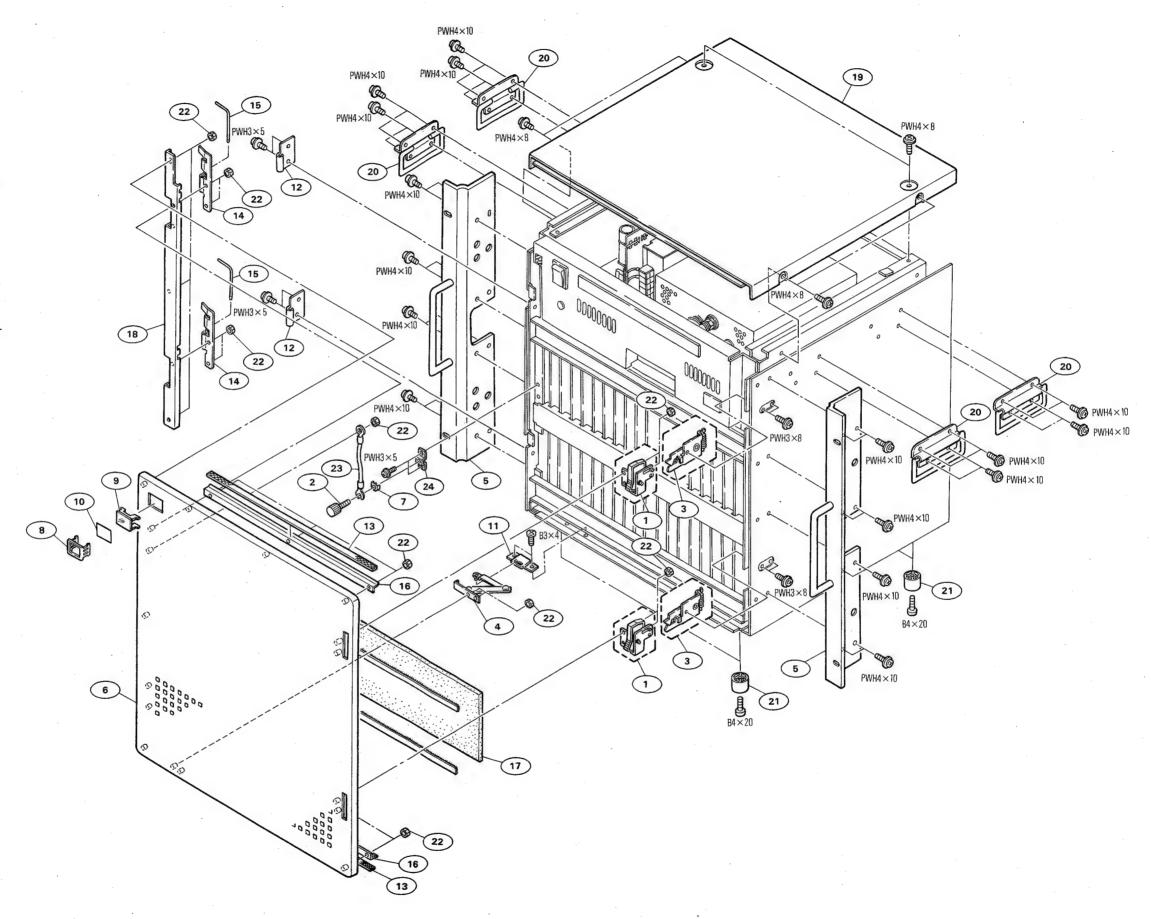
- (2) Replacement Parts supplied from the Sony Parts Center will sometimes have a different shape from the original parts. This is due to improved parts and/or engineering changes or standardization of genuine parts.
 This manual's exploded views and electrical spare
 - This manual's exploded views and electrical spare parts list indicate the part numbers of the standardized genuine parts at the present. Regarding engineering part changes by the engineering department, refer to Sony service bulletins and service manual supplements.
- (3) The parts marked with "s" in the SP column of the exploded views and electrical spare parts lists are normally stocked for replacement purposes. The parts marked with "o" in the SP column are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow for additional delivery time.
- (4) Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- (5) All capacitors are in micro farads unless otherwise specified.

All inductors are in micro henries unless otherwise specified.

All resistors are in ohms.

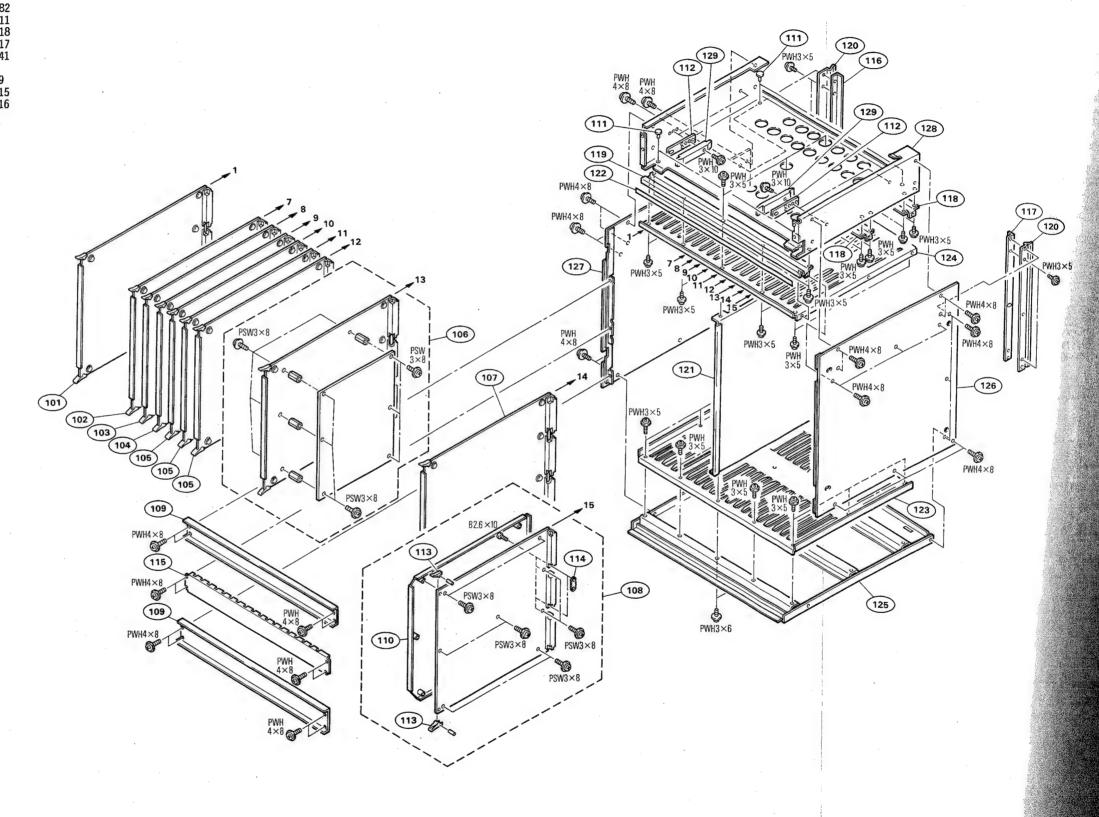
10-2-1. Chassis (1)

Part No. SP Description A-6279-484-A o HANDLE ASSY, DOOR X-2068-004-0 s TERMINAL ASSY X-2127-216-1 o LOCK ASSY, DOOR X-3165-067-1 o STOPPER ASSY X-3165-221-1 o ANGLE ASSY (10U), RACK X-3165-447-1 o PANEL ASSY, FRONT 2-068-008-00 s WASHER 2-139-192-01 o FRAME, INDICATOR WINDOW 2-139-193-01 o WINDOW, INDICATOR 2-249-353-00 o COVER, LAMP 3-166-131-01 o TABLE (H), STAY 3-166-133-01 o HINGE (H) 3-166-134-01 o LINE, SHILED 11 12 13 3-166-135-01 o HINGE (F) 14 3-166-136-01 o PIN, HÌNGE 3-166-157-01 o BRACKET, SHIELD LINE 3-166-203-01 o FILTER 3-166-223-01 o PLATE, SIDE, LEFT, PANEL 3-166-229-01 o PLATE, TOP 3-167-453-01 o HANDLE 18 3-642-656-01 s F00T 4-334-513-00 s NUT, NYLON



10-2-2. Chassis (2)

Part No. - SP Description A-6259-454-A o MOUNTED CIRCIUT BOARD, CPU-82 A-6259-455-A o MOUNTED CIRCIUT BOARD, ALU-11 A-6259-456-A o MOUNTED CIRCIUT BOARD, DPR-18 104 A-6259-457-A o MOUNTED CIRCIUT BOARD, DPR-17 A-6259-458-A O MOUNTED CIRCIUT BOARD, MEM-41 A-6259-459-A o MOUNTED CIRCIUT BOARD, DLP-9 A-6259-460-A o MOUNTED CIRCIUT BOARD, DPR-15 107 A-6259-461-A O MOUNTED CIRCIUT BOARD, DPR-16 X-3165-222-1 O RETAINER ASSY, PC BOARD 108 X-3165-223-1 o PLATE ASSY, SHIELD 2-249-250-00 s CLIP (SMALL), CANOE 3-166-132-01 o SPACER (G) 3-166-184-01 o LEVER, PC BOARD 112 113 3-166-191-01 o HOLDER, PC BOARD 3-166-193-01 o BRACKET (L), MOTHER BOARD 114 115 3-166-194-01 o BRACKET (R), MOTHER BOARD 3-166-195-01 O RETAINER, RAIL TABLE 3-166-196-02 O RETAINER, EJECTOR 117 118 3-166-200-01 o BRACKET, FCC 3-166-213-01 o REINFORCEMENT 119 3-166-214-01 o SHEET, INDICATION 122 3-166-230-02 o TABLE, RAIL 123 3-166-230-12 o TABLE, RAIL 3-166-231-01 o PLATE, BOTTOM 3-166-232-01 o PLATE (R), SIDE 124 125 3-166-233-01 o PLATE (L), SIDE 3-167-575-11 o TABLE, SLIDE, POWER 3-724-333-01 o GUIDE (S), CASSETTE 126 127



0-2-3. Power Unit Part No. SP Description

A-6263-090-A o MOUNTED CIRCIUT BOARD, CN-456 A1-413-477-12 s REGULATOR, SWITCHING (EWS50-5) A1-413-569-11 s REGULATOR, SWITCHING A1-413-594-11 s SWITCHING REGULATOR

05 1-424-136-11 s FILTER, NOISE

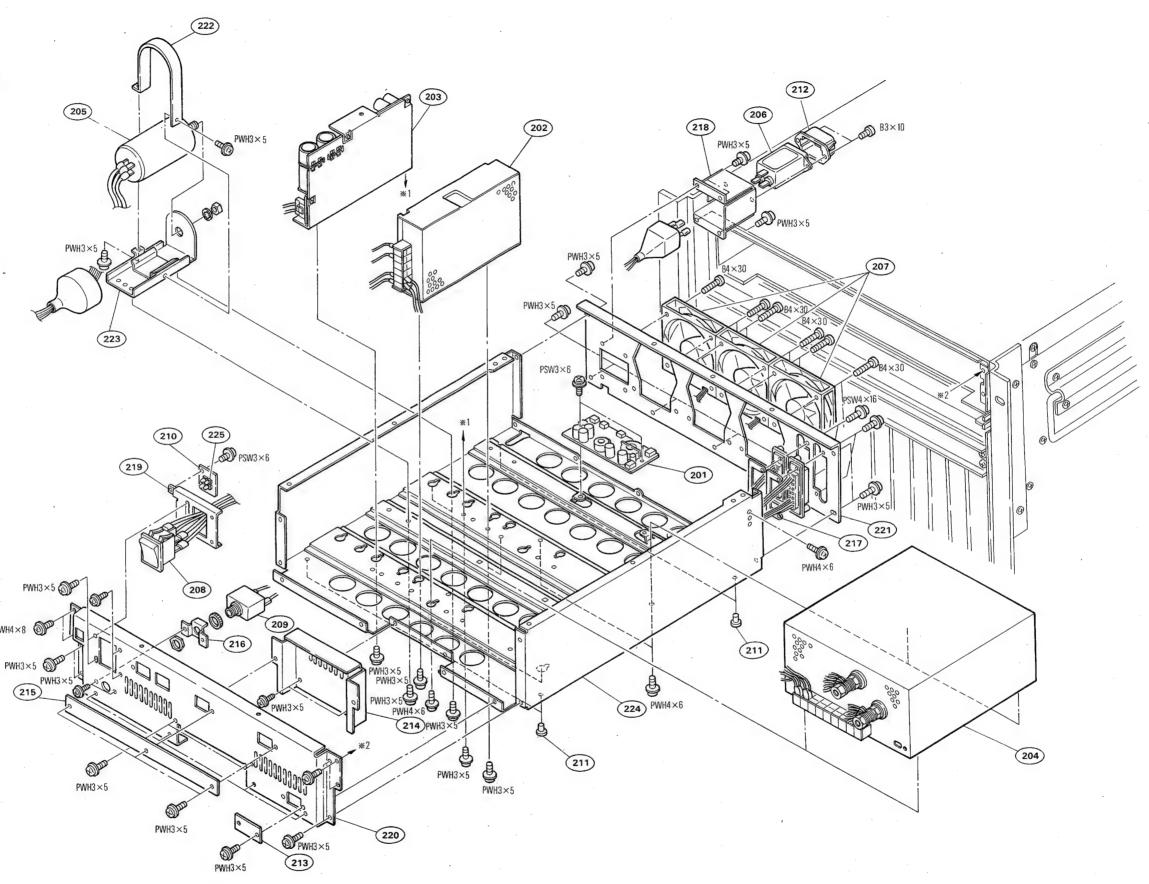
06 A1-540-178-11 s INLET, AC (GL-2100C-30) 1-541-329-31 s FAN, DC (WITH ALARM) 08 A1-572-345-11 s SWITC, SEESAW (AC POWER) 09 A1-576-036-11 s BREAKER, CIRCUIT

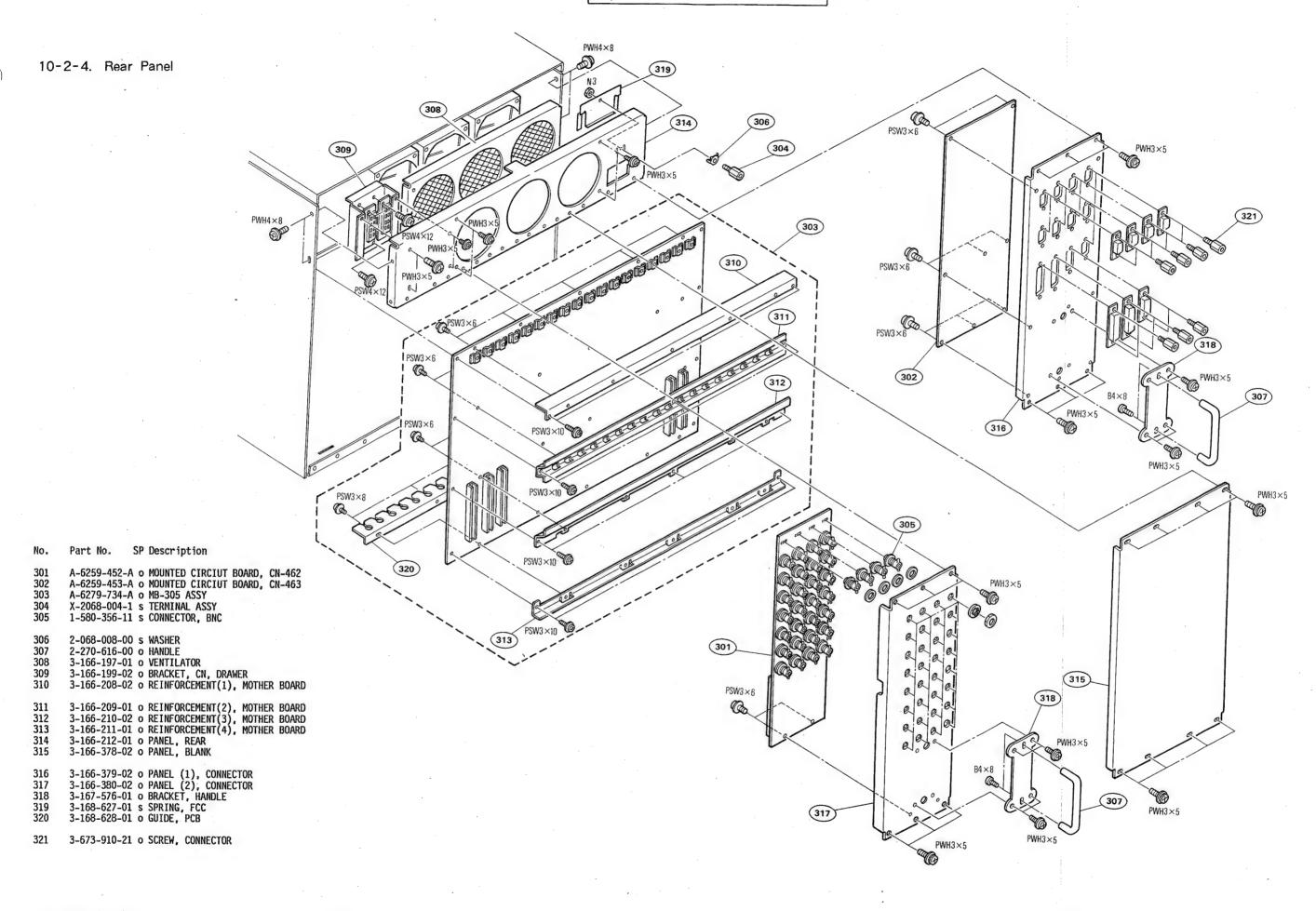
1-631-489-11 o PC BOARD, LE-76 12 13

2-249-250-00 s CLIP (SMALL), CANOE 2-990-241-01 o HOLDER (A), PLUG 3-166-137-01 o COVER, ADJUSTMENT WINDOW 3-166-160-01 o COVER, HANDLE 3-166-188-02 o COVER (2), ADJUSTMENT WINDOW

3-166-189-02 o BRACKET, BREAKER 16 3-166-190-11 s NUT, PLATE 3-166-206-02 o BRACKET, AC INLET 3-166-207-01 o BRACKET, AC SW 3-166-224-02 o PANEL, FRONT, POWER

3-166-225-01 o PANEL, REAR, POWER 3-167-572-01 o BRACKET (2), FILTER 3-167-573-01 o BRACKET (1), FILTER 3-167-574-01 o CHASSIS, POWER 3-674-390-00 o HOLDER (B), LED





10-3. ELECTRICAL PARTS LIST

CAPACITOR, CERAMIC, STACKED

Part No. SP Description

1-161-494-00 s CAP, CERAMIC 0.22 25V 1-161-898-11 s CAP, CERAMIC 0.47 50V 1-164-208-21 s CAP, CERAMIC 0.1 99% 50V

RESISTOR, METAL

Part No. SP Description

1-215-398-00 s RES, METAL 110 1% 1/6W 1-215-421-00 s RES, METAL 1.0k 1% 1/6W 1-215-429-00 s RES, METAL 2.2k 1% 1/6W 1-215-437-00 s RES, METAL 4.7k 1% 1/6W 1-215-438-00 s RES, METAL 5.1k 1% 1/6W

1-215-445-00 s RES, METAL 10k 1% 1/6W

ALU-11 BOARD	(ALU-11 BOARD)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
1pc A-6259-455-A o MOUNTED CIRCIUT BOARD, ALU-11 3pcs 1-526-659-00 s SOCKET, IC (DP) 28P 3pcs 1-526-816-21 o SOCKET, IC (DP) 24P 2pcs 3-166-184-01 o LEVER, PC BOARD	ICB28 8-759-908-69 s IC 74F350PC ICB29 8-759-908-69 s IC 74F350PC ICB30 8-759-906-76 s IC 74F283PC
6pcs 7-621-773-87 s SCREW +B 2.6X10 2pcs 7-622-207-05 s N 2.6, TYPE 2	ICC2 8-759-906-78 s IC 74F399PC
8pcs 7-682-948-01 s SCRFW +PSW 3X8	TCC5 8-759-918-33 s IC CX20160
C1 1-124-589-11 s ELECT 47uF 20% 16V CN1 1-506-748-11 s CONNECTOR, DIN 96P, MALE	ICC6 8-759-918-33 s IC CX20160 ICC7 8-759-904-87 s IC 74F374PC ICC8 8-759-904-87 s IC 74F374PC
CN2 1-506-748-11 s CONNECTOR, DIN 96P, MALE CN3 1-506-748-11 s CONNECTOR, DIN 96P, MALE	ICC9 8-759-916-96 s IC SN74HC374N ICC10 8-759-904-87 s IC 74F374PC
F1 1-576-031-11 s FUSE, MICRO F2 1-576-031-11 s FUSE, MICRO ICA1 8-759-906-78 s IC 74F399PC ICA2 8-759-906-78 s IC 74F399PC ICA3 8-759-906-78 s IC 74F399PC	ICC11 8-759-904-87 s IC 74F374PC ICC12 8-759-904-87 s IC 74F374PC ICC13 8-759-938-44 s IC SN74ALS688N
ICA1 8-759-906-78 s IC 74F399PC ICA2 8-759-906-78 s IC 74F399PC ICA3 8-759-906-78 s IC 74F399PC	ICC14 8-759-904-87 s IC 74F374PC ICC15 8-759-942-67 s IC L29C520PC
ICA3 8-759-906-78 s IC 74F399PC ICA5 8-759-706-53 s IC TMS27C256-ALU11A5V1 ICA6 8-759-706-54 s IC TMS27C256-ALU11A6V1 ICA8 8-759-706-55 s IC TMS27C256-ALU11A8V1 ICA9 8-759-904-87 s IC 74F374PC	ICC16 8-759-942-67 s IC L29C520PC ICC17 8-759-917-89 s IC 74F398PC ICC18 8-759-906-78 s IC 74F399PC ICC19 8-759-906-78 s IC 74F399PC
ICA10 8-759-904-87 \$ IC 74F374PC ICA11 8-759-906-76 \$ IC 74F283PC	ICC20 8-759-904-87 s IC 74F374PC ICC21 8-759-906-76 s IC 74F283PC
ICA12 8-759-904-87 s IC 74F374PC ICA13 8-759-906-78 s IC 74F399PC ICA14 8-759-906-78 s IC 74F399PC	ICC22 8-759-906-76 s IC 74F283PC ICC23 8-759-908-69 s IC 74F350PC ICC24 8-759-908-69 s IC 74F350PC ICC25 8-759-906-78 s IC 74F399PC
1CA14 6-759-906-76 \$ 1C 74F399PC 1CA15 8-759-906-78 \$ 1C 74F399PC 1CA16 8-759-906-78 \$ 1C 74F399PC 1CA17 8-759-903-92 \$ 1C \$N74L\$682N	1CC26 8-759-906-78 s IC 74F399PC 1CC27 8-759-917-54 s IC 74F148PC
ICA18 8-759-903-92 s IC SN74LS682N ICA19 8-759-903-92 s IC SN74LS682N	ICC28 8-759-908-69 s IC 74F350PC
ICA20 8-759-904-87 s IC 74F374PC ICA21 8-759-917-48 s IC 74F64PC ICA22 8-759-904-87 s IC 74F374PC	ICD1 8-759-916-66 s IC SN74HCT240N ICD2 8-759-938-44 s IC SN74ALS688N ICD3 8-759-913-63 s IC SN74ALS374N
ICA26 8-759-904-88 s IC 74F534PC ICA27 8-759-904-87 s IC 74F374PC ICA28 8-759-908-69 s IC 74F350PC	ICD4 8-759-904-87 s IC 74F374PC ICD5 8-759-918-33 s IC CX20160
ICA29 8-759-900-68 s IC SN74ALS30AN ICA30 8-759-908-69 s IC 74F350PC	ICD6 8-759-900-68 s IC SN74ALS30AN ICD7 8-759-915-41 s IC 74F02PC ICD8 8-759-001-87 s IC 74F20PC
ICB1 8-759-916-66 s IC SN74HCT240N ICB2 8-759-916-96 s IC SN74HC374N ICB3 8-759-906-78 s IC 74F339PC	ICD9 8-759-915-93 s IC 74F163APC ICD10 8-759-904-80 s IC 74F04PC
ICB9 8-759-904-87 s IC 74F374PC ICB10 8-759-904-80 s IC 74F04PC ICB11 8-759-906-76 s IC 74F283PC	ICD11 8-759-916-14 s IC SN74HC04N ICD12 8-759-906-78 s IC 74F399PC ICD13 8-759-906-76 s IC 74F283PC ICD14 8-759-904-87 s IC 74F374PC
ICB12 8-759-900-68 s IC 74F23F4C ICB13 8-759-904-87 s IC 74F374PC ICB15 8-759-990-97 s IC CXD81560	ICD17 8-759-906-78 s IC 74F399PC ICD18 8-759-906-78 s IC 74F399PC
ICB17 8-759-917-89 s IC 74F398PC ICB18 8-759-906-78 s IC 74F399PC	ICD19 8-759-906-78 s IC 74F399PC ICD20 8-759-942-67 s IC L29C520PC ICD21 8-759-942-67 s IC L29C520PC
ICB19 8-759-906-78 s IC 74F399PC ICB20 8-759-904-87 s IC 74F374PC	ICD22 8-759-904-80 s IC 74F04PC ICD23 8-759-908-69 s IC 74F350PC
ICB21 8-759-918-33 s IC CX20160 ICB22 8-759-904-87 s IC 74F374PC ICB24 8-759-990-97 s IC CXD8156Q	ICD24 8-759-908-69 s IC 74F350PC ICD25 8-759-906-78 s IC 74F399PC ICD26 8-759-906-78 s IC 74F399PC
ICB26 8-759-904-88 s IC 74F534PC ICB27 8-759-904-87 s IC 74F374PC	ICD27 8-759-917-54 s IC 74F148PC

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

ICJ22

8-759-906-78 s IC 74F399PC

(ALU-11 BOARD)			CN-456 BOARD			
Ref. No.			Ref. No.			
or Q'ty Part	t No. SP	Description	or Q'ty	Part No.	SP Descript	ion
		IC 74F399PC				CIRCIUT BOARD, CN-456
	59-904-80 s		1pc		9 s SCREW +PS	
		IC SN74ALS157AN	1pc	/-004-023-0	4 s N 3, TYPI	E 2
		IC SN74ALS157AN IC 74F374PC	C1	1_124_518_1	1 s ELECT 47	OUF 20% 6 3V
1032/ 0-/5	09-904-07 5	16 /453/466	C2		O s CERAMIC	
ICJ28 8-75	59-918-33 s	IC CX20160	C3	1-161-485-0	O s CERAMIC	0.1uF 50V
	59-918-33 s		C4	1-161-485-0	O s CERAMIC	0.1uF 50V
	59-918-33 s		C5		1 s ELECT 470	
	59-918-33 s		C6		O s CERAMIC	
		IC AT27HC642-ALU11K3V1	C7		0 s TANTALUM	
	59-904-82 s		C8		1 s ELECT 270	
	59-904-83 s		C9		0 s CERAMIC	
ICK6 8-75	59-910-01 s	IC CX23024	C10	1-124-522-1	1 s ELECT 270	Ouf 20% 16 V
ICK7 8-75	59-910-01 s	TC CY23024	C11	1_161_485_0	O s CERAMIC	0.1uF 50V
	59-910-01 s		C12		1 s ELECT 270	
	59-910-01 s		C13		0 s CERAMIC	
	59-910-01 s		C14		1 s ELECT 270	
	59-910-01 s		C15		O s CERAMIC	
10/11 0 /0	33 310 01 3	20 0/12021	020			
ICK12 8-75	59-910-01 s	IC CX23024	C16		O s CERAMIC (
	59-910-01 s	IC CX23024	C17	1-161-485-0	O s CERAMIC (0.1uF 50V
		IC 74F374PC				
		IC L29C520PC	CN1			R POST HEADER, ILG (4P)
ICK16 8-75	59-942-67 s	IC L29C520PC	CN2	1-506-482-2	1 o PIN, CON	NECTOR 3P
			CN3	1-500-482-2	1 o PIN, CON	NECTOR 3P
		IC 74F350PC	CN4	1-500-482-2	1 o PIN, CON	NECTUR OF
		IC 74F350PC	CN5	1-550-355-0	U O CUNNECTU	R POST HEADER, ILG (4P)
ICK19 8-75	59-918-33 s	IC CXZUIDU	D1	0 710 500 1	5 s DIODE S35	CAM
		IC 74F399PC IC 74F399PC	D1	0-719-300-1	2 2 01005 23	אורכ
1CKZ1 0-/3	35-500-70 5	10 741 33370	F1 /	1-576-031-1	1 s FUSE, MIC	CRÓ
ICK22 8-75	59-906-78 s	IC 74F399PC	4			
		IC 74F399PC	FB1	1-535-178-0	O s BEAD, FER	RRITE
		IC SN74ALS157AN	FB2		O s BEAD, FER	
ICK25 8-75	9-500-72 s	IC SN74ALS157AN				
		IC SN74ALS157AN	IC1	8-759-505-3	0 s IC LT117	1CT
		TO 04004 CO		1 404 450 1	1 - 0011 011	OVE 2 OMBILL
	59-918-33 s		L1	1-424-450-1	1 s COIL, CHO	OKE 2.UMMH
	59-918-33 s		L2	1-424-449-1	1 s COIL, CHO	DKE IIUMMH
		IC SN74ALS157AN	D1	1 240 417 1	1 a CADDON 1	V E% 1/AW
ICK30 8-75	59-918-33 s	IC CYSOLDO	R1		1 s CARBON 11 1 s CARBON 10	
		,	R2	1 249-429-	1 s CARBON 1	ON 20 1/4M
			R3			
			R4 R5		1 s CARBON 2. 1 s CARBON 2.	
			K5	1-473-466-	I S CHADON Z.	*/K 30 1/TB
			R6	1-249-422-1	1 s CARBON 2	.7K 5% 1/4W
			R7		1 s CARBON 1	

TH1

1-809-179-11 s THERMISTOR 102AT-2

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CN-462 BOARD
Ref. No.
or Q'ty Part No.
                          SP Description
           A-6259-452-A o MOUNTED CIRCIUT BOARD, CN-462
1pc
           2-270-616-00 o HANDLE
1pc
           3-166-380-02 o PANEL (2), CONNECTOR
3-167-576-01 o BRACKET, HANDLE
1pc
1pc
6pcs
           7-622-207-05 s N 2.6, TYPE 2
           7-628-254-20 s SCREW +PS 2.6X8
6pcs
           7-682-561-04 s SCREW +B 4X8
1pc
           7-682-903-01 s SCREW +PWH 3X5
2pcs
           7-682-947-01 s SCREW +PSW 3X6
2pcs
           1-563-337-11 s CONNECTOR, DIN 96P, FEMALE
CN1
          1-563-337-11 s CONNECTOR, DIN 96P, FEMALE
1-563-337-11 s CONNECTOR, DIN 96P, FEMALE
1-580-356-11 s CONNECTOR, BNC
1-580-356-11 s CONNECTOR, BNC
CN2
CN3
CN4
CN5
CN6
           1-580-356-11 s CONNECTOR, BNC
           1-580-356-11 s CONNECTOR, BNC
CN7
           1-580-356-11 s CONNECTOR, BNC
CN8
           1-580-356-11 s CONNECTOR, BNC
CNG
           1-580-356-11 s CONNECTOR, BNC
CN10
           1-580-356-11 s CONNECTOR, BNC
CN11
CN12
           1-580-356-11 s CONNECTOR, BNC
           1-580-356-11 s CONNECTOR, BNC
CN13
           1-580-356-11 s CONNECTOR, BNC
CN14
           1-580-356-11 s CONNECTOR, BNC
CN15
CN16
           1-580-356-11 s CONNECTOR, BNC
           1-580-356-11 s CONNECTOR, BNC
CN17
           1-580-356-11 s CONNECTOR, BNC
CN18
           1-580-356-11 s CONNECTOR, BNC
CN19
           1-580-356-11 s CONNECTOR, BNC
CN20
           1-580-356-11 s CONNECTOR, BNC
CN21
           1-580-356-11 s CONNECTOR, BNC
1-580-356-11 s CONNECTOR, BNC
CN22
CN23
           1-580-356-11 s CONNECTOR, BNC
CN24
           1-580-356-11 s CONNECTOR, BNC
CN25
           1-580-356-11 s CONNECTOR, BNC
CN26
           1-580-356-11 s CONNECTOR, BNC
CN27
           1-580-356-11 s CONNECTOR, BNC
CN28
           1-580-356-11 s CONNECTOR, BNC
CN29
CN30
           1-580-356-11 s CONNECTOR, BNC
           1-580-356-11 s CONNECTOR, BNC
CN31
           1-580-356-11 s CONNECTOR, BNC
CN32
CN33
           1-580-356-11 s CONNECTOR, BNC
           1-580-356-11 s CONNECTOR, BNC
1-580-356-11 s CONNECTOR, BNC
CN34
CN35
COP1
           1-563-859-11 s PLUG, SHORTING
COP2
           1-563-859-11 s PLUG, SHORTING
           1-563-859-11 s PLUG, SHORTING
1-563-859-11 s PLUG, SHORTING
COP3
COP4
COP5
           1-563-859-11 s PLUG, SHORTING
          1-563-859-11 s PLUG, SHORTING
1-563-859-11 s PLUG, SHORTING
1-563-859-11 s PLUG, SHORTING
COP6
COP7
COP8
COR1
           1-566-388-11 o CONNECTOR, 8P, MALE
          1-566-388-11 o CONNECTOR, 8P, MALE
1-566-388-11 o CONNECTOR, 8P, MALE
1-566-388-11 o CONNECTOR, 8P, MALE
COR<sub>2</sub>
COR3
```

or Q'ty Part No. SP Description A-6259-453-A o MOUNTED CIRCIUT BOARD, CN-463 1pc 2-270-616-00 o HANDLE 1pc 3-166-379-02 o PANEL (1), CONNECTOR 3-167-576-01 o BRACKET, HANDLE 1pc 1pc

3-673-910-21 o SCREW, CONNECTOR

7-622-207-05 s N 2.6. TYPE 2 7-628-254-20 s SCREW +PS 2.6X8 4pcs 4pcs 7-682-561-04 s SCREW +B 4X8 7-682-903-01 s SCREW +PWH 3X5 2pcs 4pcs 7-682-947-01 s SCREW +PSW 3X6 8pcs

CN-463 BOARD Ref. No.

24pcs

CN14

1-563-337-11 s CONNECTOR, DIN 96P, FEMALE 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE 1-563-891-21 s SOCKET, D-SUB CONNECTOR 25P 1-563-891-21 s SOCKET, D-SUB CONNECTOR 25P 1-563-826-11 s SOCKET, D-SUB CONNECTOR 15P CN2 CN3 CN4 CN5 CN₆

1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE CN7 1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE CN8 1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE 1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE CN9 CN10 CN11 1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE 1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE CN12 1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE 1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE **CN13**

1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

COR4

CPU-82 BOARD	(CPU-82 BOARD)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
1pc A-6259-454-A o MOUNTED CIRCIUT BOARD, CPU-82 3pcs 1-526-656-00 s SOCKET, IC (DP) 20P 1pc 1-526-659-00 s SOCKET, IC (DP) 28P 2pcs 1-526-660-21 s SOCKET, IC (DP) 32P 1pc 1-526-662-21 s SOCKET, IC (DP) 40P	
1pc 1-540-084-11 s SOCKET, IC (PGA TYPE) 2pcs 3-166-184-01 o LEVER, PC BOARD 6pcs 7-621-773-87 s SCREW +B 2.6X10 2pcs 7-622-207-05 s N 2.6, TYPE 2 2pcs 7-626-320-11 o PIN, SPRING 3X8	COR7 1-566-388-11 s CONNECTOR, 8P, MALE COR8 1-566-391-11 o PIN, CONNECTOR 12P COR9 1-566-391-11 o PIN, CONNECTOR 12P D1 8-719-950-77 s DIODE SLR-320VC3
8pcs 7-682-948-01 s SCREW +PSW 3X8	D2 8-719-950-77 s DIODE SLR-320VC3 D3 8-719-950-77 s DIODE SLR-320VC3 D4 8-719-950-77 s DIODE SLR-320VC3
2pcs 7-622-207-05 s N 2.6, TYPE 2 2pcs 7-626-320-11 o PIN, SPRING 3X8 8pcs 7-682-948-01 s SCREW +PSW 3X8 BT1 1-528-202-11 s BATTERY,STORAGE,NICKEL CADMIUM	D5 8-719-950-77 s DIODE SLR-320VC3
C1	D6 8-719-950-77 s DIODE SLR-320VC3 D7 8-719-950-77 s DIODE SLR-320VC3 D8 8-719-950-77 s DIODE SLR-320VC3 D9 8-719-911-19 s DIODE 1SS119 D10 8-719-911-19 s DIODE 1SS119
C9 1-126-162-11 s ELECT 3.3uF 20% 50V C11 1-162-215-31 s CERAMIC 47PF 5% 50V C12 1-126-162-11 s ELECT 3.3uF 20% 50V C13 1-162-195-31 s CERAMIC 4.7PF 10% 50V C14 1-162-195-31 s CERAMIC 4.7PF 10% 50V	D11 8-719-911-19 s DIODE 1SS119 D12 8-719-911-19 s DIODE 1SS119 D13 8-719-911-19 s DIODE 1SS119 D14 8-719-911-19 s DIODE 1SS119 D15 8-719-911-19 s DIODE 1SS119
C15	D16 8-719-911-19 s DIODE 1SS119 D17 8-719-911-19 s DIODE 1SS119 D18 8-719-911-19 s DIODE 1SS119 D19 8-719-911-19 s DIODE 1SS119 D20 8-719-911-19 s DIODE 1SS119
C20 1-162-195-31 s CERAMIC 4.7PF 10% 50V C21 1-162-195-31 s CERAMIC 4.7PF 10% 50V	D21 8-719-911-19 s DIODE 1SS119
C21 1-162-195-31 s CERAMIC 4.7PF 10% 50V C22 1-162-290-31 s CERAMIC 470PF 10% 50V C23 1-162-290-31 s CERAMIC 470PF 10% 50V	F1 1-576-031-11 s FUSE, MICRO
C22 1-162-290-31 s CERAMIC 470PF 10% 50V C23 1-162-290-31 s CERAMIC 470PF 10% 50V C24 1-162-290-31 s CERAMIC 470PF 10% 50V C25 1-162-290-31 s CERAMIC 470PF 10% 50V C26 1-131-375-00 s TANTALUM 4.7uF 10% 10V C27 1-126-157-11 s ELECT 10uF 20% 16V C28 1-126-157-11 s ELECT 10uF 20% 16V C29 1-131-363-00 s TANTALUM 4.7uF 10% 20V	ICA6 8-759-719-10 s IC GAL16V8A-CPU82A6V1
C30 1-126-157-11 s ELECT 10uF 20% 16V C129 1-162-215-31 s CERAMIC 47PF 5% 50V	ICA7 8-759-987-30 s IC 74ACT373PC ICA8 8-759-987-30 s IC 74ACT373PC ICA9 8-759-987-30 s IC 74ACT373PC ICA10 8-759-719-13 s IC GAL16V8A-CPU82A10V1
CN1 1-506-748-11 s CONNECTOR, DIN 96P, MALE CN2 1-506-748-11 s CONNECTOR, DIN 96P, MALE CN3 1-506-748-11 s CONNECTOR, DIN 96P, MALE	ICA11 8-759-719-12 s IC GAL16V8A-CPU82A11V1 ICA12 8-759-987-30 s IC 74ACT373PC ICA13 8-759-705-69 s IC WS27C010L-CPU82A13V1
COP1 1-563-859-11 s PLUG, SHORTING COP2 1-563-859-11 s PLUG, SHORTING COP3 1-563-859-11 s PLUG, SHORTING COP4 1-563-859-11 s PLUG, SHORTING	ICA15 8-759-705-68 s IC WS27C010L-CPU82A15V1 ICA17 8-752-335-16 s IC CXK581000P-10L ICA19 8-752-335-16 s IC CXK581000P-10L ICA20 8-752-335-16 s IC CXK581000P-10L
COP5 1-563-859-11 s PLUG, SHORTING COP6 1-563-859-11 s PLUG, SHORTING COP7 1-563-859-11 s PLUG, SHORTING COP81 1-563-859-11 s PLUG, SHORTING COP82 1-563-859-11 s PLUG, SHORTING COP83 1-563-859-11 s PLUG, SHORTING	ICB1 8-759-926-40 s IC SN74LS640N ICB2 8-759-981-01 s IC 74ACT245PC ICB4 8-759-970-04 s IC MB8421-90LP ICB8 8-759-987-01 s IC A80386DX-16 ICB11 8-759-978-90 s IC 74AC02PC
COP84 1-563-859-11 s PLUG, SHORTING COP85 1-563-859-11 s PLUG, SHORTING COP86 1-563-859-11 s PLUG, SHORTING COR1 1-566-388-11 s CONNECTOR, 8P, MALE	ICB12 8-759-978-92 s IC 74AC32PC ICB13 8-759-705-71 s IC WS27C010L-CPU82B13V1 ICB15 8-759-705-70 s IC WS27C010L-CPU82B15V1 ICB17 8-752-335-16 s IC CXK581000P-10L ICB19 8-752-335-16 s IC CXK581000P-10L

(CPU-82 BOARD)

Ref. No. or Q'ty	Part No. SP Description	Ref. No.	Part No. SP Description
ICB20	8-752-335-16 s IC CXK581000P-10L	ICH5 ICH6	8-759-917-43 s IC SN74HC138N 8-759-916-14 s IC SN74HC04N
ICC1	8-759-926-40 s IC SN74LS640N	ICH7	8-759-917-37 s IC SN74HC4024N
ICC2	8-759-981-01 s IC 74ACT245PC	ICH9	8-759-505-28 s IC MAX691CPE
ICC3	8-759-916-65 s IC SN74HC240N	ICH10	8-759-981-03 s IC 74AC373PC
ICC11	8-759-719-11 s IC GAL16V8A-CPU82C11V1	1CH10	0-/39-301-03 2 1C /4AC3/3FC
ICC12	8-759-987-30 s IC 74ACT373PC	ICH11	8-759-719-06 s IC GAL16V8A-CPU82H11V1
10012	0-/33-30/-30 3 1C /4ACI3/3FC	ICH13	8-759-719-05 s IC GAL16V8A-CPU82H13V1
ICD1	8-759-987-31 s IC 74ACT244PC	ICH14	8-759-149-04 s IC UPD71051C-10
ICD2	8-759-987-31 s IC 74ACT244PC	ICH15	8-759-206-41 s IC TD62083AP
ICD3	8-759-978-92 s IC 74AC32PC	ICH16	8-759-916-79 s IC SN74HC273N
ICD4	8-759-987-30 s IC 74ACT373PC 8-759-987-31 s IC 74ACT244PC 8-759-987-31 s IC 74ACT244PC 8-759-978-92 s IC 74AC32PC 8-759-506-25 s IC MB8431-90LP	101110	0-700 510 75 5 10 5H7 HIGE 5H
ICD7	8-759-987-02 s IC A80387DX-16	ICH17	8-759-916-65 s IC SN74HC240N
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
ICD10	8-759-719-09 s IC GAL16V8A-CPU82D10V1	Q1	8-729-195-23 s TRANSISTOR 2SA952
ICD11	8-759-719-08 s IC GAL16V8A-CPU82D11V1		
ICD12	8-759-719-07 s IC GAL16V8A-CPU82D12V1	R26	1-215-385-00 s METAL 33 1% 1/6W
ICD13	8-759-980-06 s IC 74AC74PC	R27	1-215-457-00 s METAL 33K 1% 1/6W
ICD15	8-759-719-07 s IC GAL16V8A-CPU82D12V1 8-759-980-06 s IC 74AC74PC 8-759-748-33 s IC HN58C65P-25	R28	1-215-409-00 s METAL 330 1% 1/6W
ICD17	8-752-335-16 s IC CXK581000P-10L 8-752-335-16 s IC CXK581000P-10L 8-752-335-16 s IC CXK581000P-10L 8-759-987-31 s IC 74ACT244PC	RB1	1-231-410-00 s RESISTOR BLOCK 10Kx8
ICD19	8-752-335-16 s IC CXK581000P-10L	KRS.	1-231-410-00 s RESISTOR BLOCK 10Kx8
ICD20	8-752-335-16 s IC CXK581000P-10L	RB3	1-231-410-00 s RESISTOR BLOCK 10Kx8
**	0.750.007.04	KB4	1-231-410-00 s RESISTOR BLOCK 10Kx8
ICE1	8-/59-98/-31 S IC /4ACT244PC	KR2	1-231-410-00 s RESISTOR BLOCK 10Kx8
ICE2	8-759-987-31 s IC 74ACT244PC 8-759-987-31 s IC 74ACT244PC	DOC	1 421 410 00 a DECICTOD DI OCK 10KVQ
ICE3 ICE11	8-759-242-59 s IC TC74ACT04P	RB6 RB7	1-231-410-00 s RESISTOR BLOCK 10Kx8 1-231-410-00 s RESISTOR BLOCK 10Kx8
ICE12	8-759-994-71 s IC 74AC109PC	RB8	1-231-410-00 \$ RESISTOR BLOCK 10KX8
ICE1Z	0-/39-394-/1 5 IC /4MCIOSEC	RB9	1-231-405-00 s RESISTOR BLOCK 1K
ICE13	8-759-717-86 s IC 74F379PC	RB10	1-231-410-00 s RESISTOR BLOCK 10Kx8
ICE14	D 7ED 222 SE & TO TOTALICTOAND		1-231-410-00 5 KL31310K DEOCK 10KKO
ICE17	8-752-335-16 s IC CXK581000P-10L	RR11	1-231-410-00 s RESISTOR BLOCK 10Kx8
ICE19	8-752-335-16 s IC CXK581000P-10L	RB12	1-231-410-00 s RESISTOR BLOCK 10Kx8
ICE20	8-752-335-16 s IC CXK581000P-10L	RB13	1-231-410-00 s RESISTOR BLOCK 10Kx8
		RB14	1-231-410-00 s RESISTOR BLOCK 10Kx8
ICF1	8-752-335-16 s IC CXK581000P-10L 8-752-335-16 s IC CXK581000P-10L 8-752-335-16 s IC CXK581000P-10L 8-759-904-77 s IC AM26LS32ACN	RB15	1-231-410-00 s RESISTOR BLOCK 10Kx8
ICF2	8-759-926-30 S IC AM261 \\ 30PC		
ICF5	8-759-149-06 s IC UPD71054C-10	RB16	1-231-410-00 s RESISTOR BLOCK 10Kx8
ICF6	8-759-149-06 s IC UPD71054C-10 8-752-330-77 s IC CXK58257P-10LL	RB17	1-231-410-00 s RESISTOR BLOCK 10Kx8
ICF8	8-759-705-66 s IC TMS27C512-CPU82F8V1 8-759-994-85 s IC 74AC245PC 8-759-981-03 s IC 74AC373PC 8-752-800-48 s IC CXQ70116P-8		
*****	0.750.004.05	RY1	1-515-640-11 s RELAY (5V)
ICF9	8-759-994-85 s IC 74AC245PC	RY2	1-515-640-11 s RELAY (5V)
ICF10	8-759-981-03 s IC 74AC373PC	RYS	1-515-640-11 s RELAY (5V)
ICF11 ICF13	8-752-800-48 s IC CXQ70116P-8 8-759-107-56 s IC CXQ71011P	K14	1-515-640-11 s RELAY (5V)
ICF14	8-759-978-92 s IC 74AC32PC	S1	1-571-029-11 s SWITCH, PUSH (1 KEY)
10114	0-733-370-32 3 1C 74A0321 C	S2	1-570-623-11 s SWITCH, DIP 8-CKT
ICF15	8-759-981-01 s IC 74ACT245PC	S3	1-570-623-11 s SWITCH, DIP 8-CKT
ICG2	8-759-926-30 s IC AM26LS30PC	X1	1-567-787-11 s OSCILLATOR, CRYSTAL
ICG3	8-759-113-74 s IC UPD72001C	X2	1-567-976-11 s OSCILLATOR, CRYSTAL
ICG5	8-759-105-76 s IC UPD71059C		
ICG6	8-752-330-77 s IC CXK58257P-10LL		
ICG8	8-759-705-67 s IC TMS27C512-CPU82G8V1		
7000	O TEO DOS OF - TO TANCOSEDE		
ICG9 ICG10	8-759-994-85 s IC 74AC245PC 8-759-981-03 s IC 74AC373PC		
ICG10	8-759-978-92 s IC 74AC32PC		
ICG14	8-759-105-76 s IC UPD71059C		
ICG15	8-759-916-65 s IC SN74HC240N		
10010	O 700 010 0 10 OHT HIGH FOR		
ICG16	8-759-916-79 s IC SN74HC273N		
ICG17	8-759-916-65 s IC SN74HC240N		
ICG20	8-759-001-00 s IC MC74HC132N		
ICG21	8-759-505-28 s IC MAX691CPE		
Y 0.114	0.750.015.00 - 10.007400440		
ICH1 ICH2	8-759-916-20 s IC SN74HC14N 8-759-938-75 s IC MAX232CPE		
ICH2 ICH3	8-759-113-74 s IC UPD72001C		
20110	OF TOO TIGHT OF TO SERVEDOTA		

DLP-9 BO		(DLP-9 B	OARD)
Ref. No. or Q'ty		Ref. No. or Q'ty	Part No. SP Description
4pcs	A-6259-459-A O MOUNTED CIRCIUT BOARD, DLP-9 1-526-654-00 s SOCKET, IC (DP) 16P 1-526-816-21 O SOCKET, IC (DP) 24P 1-572-594-11 s SWITCH, DIP 2-280-622-21 O SUPPORT (M3X10), HEXAGON	ICC1 ICC2 ICC3	8-759-147-02 s IC UPD42101C-3 8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN 8-759-918-33 s IC CX20160 8-759-500-72 s IC SN74ALS157AN
2pcs 6pcs 2pcs 2pcs 1pc	3-166-184-01 o LEVER, PC BOARD 7-621-773-87 s SCREW +B 2.6X10 7-622-207-05 s N 2.6, TYPE 2 7-626-320-11 s PIN, SPRING 3X8 7-682-948-01 s SCREW +PSW 3X8 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V	1443	8-759-500-72 s IC SN74ALS157AN 8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN 8-759-942-67 s IC L29C520PC 8-759-705-61 s IC CY7C291L-DLP9C9V1
C1 C2	1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V	ICC10	8-759-990-97 s IC CXD8156Q
CN1 CN2 CN3 CN4 CN5	1-124-589-11 \$ ELECT 470F 20% 16V 1-506-748-11 \$ CONNECTOR, DIN 96P, MALE 1-506-748-11 \$ CONNECTOR, DIN 96P, MALE 1-506-748-11 \$ CONNECTOR, DIN 96P, MALE 1-580-674-11 \$ CONNECTOR (PC BOARD) (M) 15P 1-580-673-11 \$ CONNECTOR (PC BOARD) (M) 12P	ICC13 ICC18 ICC19 ICC20 ICC21	8-759-990-97 s IC CXD8156Q 8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3
	1-580-673-11 o CONNECTOR (PC BOARD) (M) 12P 1-580-674-11 o CONNECTOR (PC BOARD) (M) 15P 1-569-606-11 o CONNECTOR (PC BOARD) (M) 40P	ICC22 ICC23 ICC24 ICC25 ICC26	8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3
F1 F2	1-576-031-11 s FUSE, MICRO 1-576-031-11 s FUSE, MICRO	ICD1 ICD2	8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN
ICA1 ICA2 ICA3 ICA4	8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN 8-759-500-72 s IC SN74ALS157AN	ICD3 ICD4 ICD5	8-759-918-33 s IC CX20160 8-759-946-38 s IC SN74ALS574AN 8-759-705-63 s IC CY7C291L-DLP9B4V1
ICA5 ICA6 ICA7 ICA8 ICA11	8-759-500-72 s IC SN74ALS157AN 8-759-946-64 s IC SN74ALS04BN 8-759-006-22 s IC SN74LS283N 8-759-990-97 s IC CXD8156Q 8-759-990-97 s IC CXD8156Q	ICD6 ICD7 ICD8 ICD9 ICD10	8-759-705-53 s IC MB7112L-DLP9D6V1 8-759-705-52 s IC MB7112L-DLP9D7V1 8-759-705-57 s IC MB7112L-DLP9D8V1 8-759-705-60 s IC MB7112L-DLP9D9V1 8-759-990-97 s IC CXD8156Q
ICA13	8-759-946-64 s IC SN74ALS04BN 8-759-006-22 s IC SN74LS283N 8-759-990-97 s IC CXD8156Q 8-759-990-97 s IC CXD8156Q 8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3 8-759-980-83 s IC 74F574PC	ICD20 ICD21 ICD22 ICD23 ICD24	8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3
ICA20	8-759-980-83 s IC 74F574PC	ICD25 ICD26	8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3
ICB1 ICB2 ICB3 ICB4 ICB5	8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN 8-759-705-63 s IC CY7C291L-DLP9B4V1 8-759-900-69 s IC SN74ALS74AN	ICE1 ICE2 ICE3 ICE4 ICE5	8-759-904-77 s IC AM26LS32ACN 8-759-900-69 s IC SN74ALS74AN 8-759-904-26 s IC SN74ALS08N 8-759-500-72 s IC SN74ALS157AN 8-759-946-36 s IC SN74ALS163BN
ICB6 ICB7 ICB8 ICB10 ICB13	8-759-006-22 s IC SN74LS283N 8-759-006-22 s IC SN74LS283N 8-759-942-67 s IC L29C520PC 8-759-990-97 s IC CXD8156Q 8-759-990-97 s IC CXD8156Q	ICE6 ICE7 ICE8 ICE9 ICE14	8-759-946-36 s IC SN74ALS163BN 8-759-912-03 s IC SN74ALS138N 8-759-705-56 s IC MB7112L-DLP9E8V1 8-759-705-59 s IC MB7112L-DLP9E9V1 8-759-990-97 s IC CXD8156Q
ICB16 ICB17 ICB18 ICB19 ICB20	8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3 8-759-946-64 s IC SN74ALS04BN	ICE17 ICE20 ICE22 ICE25 ICE26	8-759-990-97 s IC CXD8156Q 8-759-990-97 s IC CXD8156Q 8-759-990-97 s IC CXD8156Q 8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3
ICB21 ICB22 ICB23 ICB24 ICB25	8-759-147-02 s IC UPD42101C-3 8-759-980-83 s IC 74F574PC 8-759-980-83 s IC 74F574PC 8-759-980-83 s IC 74F574PC 8-759-980-83 s IC 74F574PC	ICF1 ICF2 ICF3 ICF4 ICF5	8-759-901-44 s IC 74F240PC 8-759-901-44 s IC 74F240PC 8-759-946-64 s IC SN74ALS04BN 8-759-500-72 s IC SN74ALS157AN 8-759-705-65 s IC AT27HC642-DLP9F5V1

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(DLP-9 BOARD)
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Ref. No. or Q'ty	Part No.	SP	Description
ICF6 ICF7 ICF8 ICF9 ICF12	8-759-705-64 8-759-705-55 8-759-705-54	S S	IC AT27HC642-DLP9F5V1 IC AT27HC642-DLP9F7V1 IC MB7112L-DLP9F8V1 IC MB7112L-DLP9F9V1 IC CXD8156Q
ICF14 ICF17 ICF20 ICF22 ICF25	8-759-990-97 8-759-990-97 8-759-990-97 8-759-990-97 8-759-990-97	S S	IC CXD8156Q IC CXD8156Q IC CXD8156Q
ICG1 ICG3 ICG5 ICG7 ICG9	8-759-946-38 8-759-500-04 8-759-500-04 8-759-946-38 8-759-500-04	SSSS	IC SN74ALS574AN IC LSP001AC-Q IC LSP001AC-Q IC SN74ALS574AN IC LSP001AC-Q
ICH1 ICH3 ICH5 ICH6 ICH7	8-759-500-04 8-759-901-25	S	IC SN74ALS574AN IC LSP001AC-Q IC LSP001AC-Q IC SN74LS125AN IC SN74ALS574AN
ICH9			IC LSP001AC-Q
ICJ1 ICJ11 ICJ12 ICJ13 ICJ14	8-759-506-43 8-759-980-83	S	IC SN74ALS574AN IC TMC2111B2C IC TMC2111B2C IC 74F574PC IC TMC2111B2C
ICJ15 ICJ16 ICJ17 ICJ18 ICJ20	8-759-506-43 8-759-980-83 8-759-506-43 8-759-506-43 8-759-990-97	SSSS	IC TMC2111B2C IC 74F574PC IC TMC2111B2C IC TMC2111B2C IC CXD8156Q
ICJ22 ICJ25	8-759-990-97 8-759-990-97		
ICK3 ICK5 ICK6 ICK7 ICK9	8-759-500-04 8-759-937-47	S	IC LSP001AC-Q IC LSP001AC-Q IC SN74ALS86N IC SN74ALS574AN IC LSP001AC-Q
ICK11 ICK12 ICK13 ICK16 ICK17	8-759-946-64 8-759-946-64 8-759-980-83 8-759-980-83 8-759-980-83	s s	IC SN74ALSO4BN IC SN74ALSO4BN IC 74F574PC IC 74F574PC IC 74F574PC
ICK18	8-759-980-83	s	IC 74F574PC
R1 R2 R3 R4 R5	1-249-425-11 1-249-425-11 1-249-425-11	s s s	CARBON 4.7K 5% 1/4W
R6 R7 R8 R9 R10	1-249-425-11 1-249-425-11 1-249-425-11	s s	CARBON 4.7K 5% 1/4W CARBON 4.7K 5% 1/4W CARBON 4.7K 5% 1/4W CARBON 4.7K 5% 1/4W CARBON 4.7K 5% 1/4W
R11 R12 R13	1-249-425-11	S	CARBON 4.7K 5% 1/4W CARBON 4.7K 5% 1/4W CARBON 4.7K 5% 1/4W

(DLP-9 BOARD)

Ref. No. or Q'ty	Part No. SP Description
R14	1-249-425-11 s CARBON 4.7K 5% 1/4W 1-249-425-11 s CARBON 4.7K 5% 1/4W
R15	1-249-423-11 S CARBON 4./K 39 1/48
R16	1-249-425-11 s CARBON 4.7K 5% 1/4W
R17	1-249-425-11 s CARBON 4.7K 5% 1/4W
R18	1-249-425-11 s CARBON 4.7K 5% 1/4W
R19	1-249-410-11 s CARBON 270 5% 1/4W
R20	1-249-410-11 s CARBON 270 5% 1/4W
R21	1-249-410-11 s CARBON 270 5% 1/4W
R22	
R23	
KZJ	1-249-410-11 S CARDON 270 38 1748
R24	1-249-410-11 s CARBON 270 5% 1/4W
RB1	1-231-385-00 s RESISTOR BLOCK 4.7Kx8
RB2	1-231-525-00 s RESISTOR BLOCK 4.7Kx4
RB2 RB3	1-231-525-00 s RESISTOR BLOCK 4.7Kx4
RB4	1-231-525-00 s RESISTOR BLOCK 4.7Kx4
RB5	1-231-525-00 s RESISTOR BLOCK 4.7Kx4
RB6	
RB7	1-231-525-00 s RESISTOR BLOCK 4.7Kx4
	1 FRO COS 11 - CHITCH DID
S1	1-570-621-11 s SWITCH, DIP
S2	1-554-027-00 s SWITCH, DIGITAL
S3	1-570-598-11 s SWITCH, DIP 4-CKT
S4	1-554-027-00 s SWITCH, DIGITAL

DLP-10 BOARD	(DLP-10 BOARD)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
	ICE14 8-759-990-97 s IC CXD8156Q
CN1 1-580-675-11 o CONNECTOR (PC BOARD) (F) 15P CN2 1-562-772-11 o CONNECTOR, 12P, FEMALE CN3 1-562-772-11 o CONNECTOR, 12P, FEMALE CN4 1-580-675-11 o CONNECTOR (PC BOARD) (F) 15P CN5 1-562-773-11 o CONNECTOR, 40P, FEMALE	ICF1 8-759-705-48 s IC WS57C291B-DLP10F1V1 ICF2 8-759-705-47 s IC WS57C291B-DLP10F2V1 ICF3 8-759-705-49 s IC WS57C291B-DLP10F3V1
ICA4 8-759-946-38 s IC SN74ALS574AN ICA5 8-759-946-38 s IC SN74ALS574AN ICA6 8-759-705-40 s IC AT27HC642-DLP10A6V1 ICA8 8-759-946-38 s IC SN74ALS574AN	ICG3 8-759-500-72 s IC SN74ALS157AN ICG4 8-759-147-02 s IC UPD42101C-3 ICG5 8-759-147-02 s IC UPD42101C-3 ICG6 8-759-147-02 s IC UPD42101C-3
ICA10 8-759-705-41 s IC SN74ALS574AN ICA10 8-759-705-41 s IC AT27HC642-DLP10A10V1 ICA12 8-759-946-38 s IC SN74ALS574AN ICA13 8-759-946-38 s IC SN74ALS574AN ICA14 8-759-705-40 s IC AT27HC642-DLP10A6V1	ICG7 8-759-147-02 s IC UPD42101C-3 ICG8 8-759-147-02 s IC UPD42101C-3 ICG9 8-759-147-02 s IC UPD42101C-3 ICG10 8-759-147-02 s IC UPD42101C-3 ICG11 8-759-147-02 s IC UPD42101C-3
ICB3 8-752-304-30 s IC CX23043	ICG14 8-759-147-02 s IC UPD42101C-3
ICB4 8-759-990-97 s IC CXD8156Q ICB6 8-759-942-67 s IC L29C520PC ICB7 8-759-942-67 s IC L29C520PC ICB8 8-759-990-97 s IC CXD8156Q ICB10 8-759-942-67 s IC L29C520PC ICB11 8-759-942-67 s IC L29C520PC ICB12 8-759-990-97 s IC CXD8156Q ICB14 8-759-942-67 s IC L29C520PC	ICH1 8-759-901-44 s IC 74F240PC ICH2 8-759-946-38 s IC SN74ALS574AN ICH3 8-759-946-38 s IC SN74ALS574AN ICH4 8-759-990-97 s IC CXD8156Q ICH6 8-759-946-38 s IC SN74ALS574AN
ICB14 8-759-942-67 s IC L29C520PC ICB15 8-759-942-67 s IC L29C520PC	ICH7 8-759-946-38 s IC SN74ALS574AN ICH8 8-759-990-97 s IC CXD8156Q ICH10 8-759-946-38 s IC SN74ALS574AN ICH11 8-759-946-38 s IC SN74ALS574AN
ICC1 8-759-946-64 s IC SN74ALS04BN ICC2 8-759-705-46 s IC WS57C291B-DLP10C2V1 ICC3 8-759-705-45 s IC WS57C291B-DLP10C3V1 ICC4 8-759-990-97 s IC CXD8156Q ICC6 8-759-990-97 s IC CXD8156Q	ICH12 8-759-990-97 s IC CXD8156Q ICH14 8-759-946-38 s IC SN74ALS574AN ICH15 8-759-946-38 s IC SN74ALS574AN
ICC8 8-759-990-97 s IC CXD8156Q ICC10 8-759-990-97 s IC CXD8156Q ICC12 8-759-990-97 s IC CXD8156Q ICC14 8-759-990-97 s IC CXD8156Q	R1 1-249-425-11 s CARBON 4.7K 5% 1/4W R2 1-249-425-11 s CARBON 4.7K 5% 1/4W R3 1-249-425-11 s CARBON 4.7K 5% 1/4W R4 1-249-425-11 s CARBON 4.7K 5% 1/4W R5 1-249-425-11 s CARBON 4.7K 5% 1/4W
ICD1 8-759-705-44 s IC WS57C291B-DLP10D1V1 ICD2 8-759-705-43 s IC WS57C291B-DLP10D2V1 ICD3 8-759-705-51 s IC WS57C291B-DLP10D3V1 ICD4 8-759-942-67 s IC L29C520PC ICD5 8-759-942-67 s IC L29C520PC	R6 1-249-425-11 s CARBON 4.7K 5% 1/4W R7 1-249-425-11 s CARBON 4.7K 5% 1/4W R8 1-249-425-11 s CARBON 4.7K 5% 1/4W R9 1-249-425-11 s CARBON 4.7K 5% 1/4W R10 1-249-425-11 s CARBON 4.7K 5% 1/4W
ICD6 8-759-946-38 s IC SN74ALS574AN ICD7 8-759-946-38 s IC SN74ALS574AN ICD8 8-759-942-67 s IC L29C520PC ICD9 8-759-942-67 s IC L29C520PC ICD10 8-759-946-38 s IC SN74ALS574AN	R11 1-249-425-11 s CARBON 4.7K 5% 1/4W R12 1-249-425-11 s CARBON 4.7K 5% 1/4W R13 1-249-425-11 s CARBON 4.7K 5% 1/4W R14 1-249-425-11 s CARBON 4.7K 5% 1/4W R15 1-249-425-11 s CARBON 4.7K 5% 1/4W
ICD11 8-759-946-38 s IC SN74ALS574AN ICD12 8-759-942-67 s IC L29C520PC ICD13 8-759-942-67 s IC L29C520PC ICD14 8-759-946-38 s IC SN74ALS574AN ICD15 8-759-946-38 s IC SN74ALS574AN	R16 1-249-425-11 s CARBON 4.7K 5% 1/4W R17 1-249-425-11 s CARBON 4.7K 5% 1/4W R18 1-249-425-11 s CARBON 4.7K 5% 1/4W R19 1-249-425-11 s CARBON 4.7K 5% 1/4W R20 1-249-425-11 s CARBON 4.7K 5% 1/4W
ICE2 8-759-705-42 s IC WS57C291B-DLP10E2V1 ICE3 8-759-705-50 s IC WS57C291B-DLP10E3V1 ICE4 8-759-990-97 s IC CXD8156Q ICE6 8-759-990-97 s IC CXD8156Q ICE8 8-759-990-97 s IC CXD8156Q	R21 1-249-425-11 s CARBON 4.7K 5% 1/4W R22 1-249-425-11 s CARBON 4.7K 5% 1/4W R23 1-249-425-11 s CARBON 4.7K 5% 1/4W R24 1-249-425-11 s CARBON 4.7K 5% 1/4W R25 1-249-425-11 s CARBON 4.7K 5% 1/4W
ICE10 8-759-990-97 s IC CXD8156Q ICE12 8-759-990-97 s IC CXD8156Q	R26 1-249-425-11 s CARBON 4.7K 5% 1/4W R27 1-249-425-11 s CARBON 4.7K 5% 1/4W

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(DLP-10 BOARD)
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Ref. No.			
	Part No.	SP	Description
R28 R29 R30 R31	1-249-425-1	s	CARBON 4.7K 5% 1/4W
R29	1-249-425-11	S	CARBON 4.7K 5% 1/4W
R30	1-249-425-11		CARBON 4.7K 5% 1/4W
R31	1-249-425-11	s	CARBON 4.7K 5% 1/4W
R32	1-249-425-11		CARBON 4.7K 5% 1/4W
R33	1-249-425-11		CARBON 4.7K 5% 1/4W
R34	1-249-425-11	S	CARBON 4.7K 5% 1/4W
R35	1-249-425-11	. s	CARBON 4.7K 5% 1/4W
R36	1-249-425-11		CARBON 4.7K 5% 1/4W
R37	1-249-425-11		CARBON 4.7K 5% 1/4W
	2 2.0 .20 12		
R38	1-249-425-11		CARBON 4.7K 5% 1/4W
R39	1-249-425-11	S	CARBON 4.7K 5% 1/4W
R40	1-249-425-11	. \$	CARBON 4.7K 5% 1/4W
R41	1-249-425-11	S	CARBON 4.7K 5% 1/4W
R42	1-249-425-11	S	CARBON 4.7K 5% 1/4W
R43	1-249-425-11		CARBON 4.7K 5% 1/4W
R44	1-249-425-11		CARBON 4.7K 5% 1/4W
R45			CARBON 4.7K 5% 1/4W
R46	1-249-425-11		CARBON 4.7K 5% 1/4W
R47	1-249-425-11		
		•	0701.0011 10711 00 27 111
R48	1-249-425-11	S	CARBON 4.7K 5% 1/4W
R49	1-249-425-11	S	CARBON 4.7K 5% 1/4W
R50			CARBON 4.7K 5% 1/4W
R51	1-249-425-11	S	CARBON 4.7K 5% 1/4W
R52	1-249-425-11	S	CARBON 4.7K 5% 1/4W
\$1	1-570-727-11	c	SWITCH, DIP
S1 S2 S3 S4	1-570-727-11		SWITCH, DIP
53	1-570-727-11		
\$4	1-572-594-11		SWITCH, DIP
\$5	1-570-728-11	-	SWITCH, DIP
S6	1-570-728-11	S	SWITCH. DIP

DPR-15 BOARD

DFR-13 L	
Ref. No.	
	Part No. SP Description
	and the second s
1pc	A-6259-460-A O MOUNTED CIRCUIT BOARD, DPR-15
1pc	1-526-656-00 s SOCKET, IC (DP) 20P
Spes	3 166 194 01 0 LEVED DC DOADD
Enge	1-526-816-21 o SOCKET, IC (DP) 24P 3-166-184-01 o LEVER, PC BOARD 7-621-773-87 s SCREW +B 2.6X10
opes	7-021-773-07 5 SCREW TD 2.0X10
2nce	7_622_207_05 c N 2 6 TYPE 2
2pcs	7-622-207-05 s N 2.6, TYPE 2 7-626-320-11 s PIN, SPRING 3X8 7-682-948-01 s SCREW +PSW 3X8
8ncs	7-682-948-01 s SCRFW +PSW 3X8
Орос	TOOL STO UZ S SUILLI TON SING
C1	1-124-589-11 s ELECT 47uF 20% 16V
CN1	1-506-748-11 s CONNECTOR, DIN 96P, MALE
CN2	1-506-748-11 s CONNECTOR, DIN 96P, MALE
CN3	1-506-748-11 s CONNECTOR, DIN 96P, MALE
	* F3C 001 11 - FUCE NYCHO
F1	1-576-031-11 s FUSE, MICRO
F2	1-576-031-11 s FUSE, MICRO
TCA1	8-759-946-38 s IC SN74ALS574AN
ICV3	9.750 046_30 c TC SN74ALSS74AN
I CA3	8_759_946_38 s IC SN74ALSS74AN
TCA4	8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN
I CAS	8-759-916-71 s IC SN74HC244N
ICA6	8-759-916-71 s IC SN74HC244N
ICA7	8-752-322-06 s IC CXK5814P-35 8-752-322-06 s IC CXK5814P-35
ICA8	8-752-322-06 s IC CXK5814P-35
ICA9	8-759-921-34 s IC SN74HC245N
ICA10	8-759-921-34 s IC SN74HC245N
T C A 1 1	8-759-946-38 s IC SN74ALS574AN
I CALL	8-759-946-38 s IC SN74ALS574AN
ICA13	8-759-719-15 s IC PEEL18CV8P-SAM001V1
TCA14	8-759-946-38 s IC SN74ALS574AN
ICA15	8-759-147-02 s IC UPD42101C-3
	8-759-147-02 s IC UPD42101C-3
ICA17	8-759-918-33 s IC CX20160
ICA18	8-759-948-19 s IC V74ACT821PS 8-759-706-02 s IC WS57C291B-DPR15A19V1
ICA19	8-759-706-02 s IC WS57C291B-DPR15A19V1
1 CA20	8-759-946-38 s IC SN74ALS574AN
TCA21	8-759-948-19 s IC V74ACT821PS
ICA22	8-759-706-01 s IC WS57C291B-DPR15A22V1
ICA23	8-759-946-38 s IC SN74ALS574AN
ICA24	8-759-948-19 s IC V74ACT821PS
ICA25	8-759-706-05 s IC WS57C291B-DPR15A25V1
ICA26	8-759-946-38 s IC SN74ALS574AN
ICA27	8-759-706-03 s IC WS57C291B-DPR15A27V1
1 CAZS	8-/59-940-38 S IC SN/4ALS5/4AN
ICA29	8-759-948-19 s IC V74ACT821PS
ICA30	8-759-706-04 s IC WS57C291B-DPR15A30V1
ICA31	8-759-946-38 s IC SN74ALS574AN
ICB1	8-759-946-38 s IC SN74ALS574AN
ICB2	8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN
ICB3	8-/59-946-38 s IC SN74ALS574AN
ICB4	8-759-946-38 s IC SN74ALS574AN
ICB5	8-759-916-71 s IC SN74HC244N
ICB6	8-759-916-71 s IC SN74HC244N
ICB7	8-752-322-06 s IC CXK5814P-35
	8-752-322-06 s IC CXK5814P-35
ICB9	8-759-921-34 s IC SN74HC245N
	8-759-921-34 s IC SN74HC245N
ICB11	8-759-946-38 s IC SN74ALS574AN

(DPR-15	BOARD)	(DPR-15	BOARD)
Ref. No or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
ICB12 ICB13 ICB14 ICB15 ICB16	8-759-946-38 s IC SN74ALS574AN 8-759-719-15 s IC PEEL18CV8P-SAM001V1 8-759-946-38 s IC SN74ALS574AN 8-759-147-02 s IC UPD42101C-3 8-759-147-02 s IC UPD42101C-3	ICD6 ICD7 ICD8 ICD9 ICD10	8-759-904-18 s IC SN74ALSOOAN 8-759-916-66 s IC SN74HCT240N 8-759-901-44 s IC 74F240PC 8-759-906-71 s IC 74F175PC 8-759-917-06 s IC SN74HC574N
ICB17 ICB18 ICB19 ICB20 ICB21	8-759-918-33 s IC CX20160 8-759-917-87 s IC 74F382PC 8-759-917-87 s IC 74F382PC 8-759-946-38 s IC SN74ALS574AN 8-759-917-87 s IC 74F382PC	ICD11 ICD12 ICD13 ICD15 ICD16	8-759-917-06 s IC SN74HC574N 8-759-917-06 s IC SN74HC574N 8-759-917-06 s IC SN74HC574N 8-759-900-69 s IC SN74ALS74AN 8-759-906-76 s IC 74F283PC
ICB22 ICB23 ICB24 ICB25 ICB26	8-759-917-87 s IC 74F382PC 8-759-901-44 s IC 74F240PC 8-759-917-87 s IC 74F382PC 8-759-917-87 s IC 74F382PC 8-759-917-87 s IC 74F382PC	ICD24 ICD26	8-759-906-76 s IC 74F283PC 8-752-337-41 s IC CXK1206M 8-752-337-41 s IC CXK1206M 8-752-337-41 s IC CXK1206M 8-759-948-19 s IC V74ACT821PS
ICB27 ICB28 ICB29 ICB30 ICB31	8-759-948-19 s IC V74ACT821PS 8-759-946-38 s IC SN74ALS574AN 8-759-917-87 s IC 74F382PC 8-759-917-87 s IC 74F382PC 8-759-912-05 s IC SN74ALS161BN	ICD27 ICD28 ICD29 ICD30 ICD31	8-759-706-06 s IC WS57C291B-DPR15D27V1 8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN 8-759-917-87 s IC 74F382PC 8-759-917-87 s IC 74F382PC
ICB32 ICB9A ICB10A ICB11A ICB12A	8-759-946-64 s IC SN74ALSO4BN 8-759-904-26 s IC SN74ALSO8N 8-759-904-38 s IC SN74ALS32N 8-759-904-36 s IC SN74ALS27N 8-759-916-14 s IC SN74HCO4N	ICE2 ICE3 ICE4	8-759-916-66 s IC SN74HCT240N 8-759-912-30 s IC SN74ALS640AN 8-759-916-66 s IC SN74HCT240N 8-759-916-66 s IC SN74HCT240N 8-759-916-66 s IC SN74HCT240N
ICC1 ICC2 ICC3 ICC4 ICC5	8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN 8-759-936-60 s IC SN74ALS273N 8-759-936-60 s IC SN74ALS273N 8-759-946-38 s IC SN74ALS574AN	ICE6 ICE7 ICE8 ICE9 ICE10	8-759-916-18 s IC SN74HC10N 8-759-916-14 s IC SN74HC04N 8-759-917-43 s IC SN74HC138N 8-759-917-06 s IC SN74HC574N 8-759-917-06 s IC SN74HC574N
ICC6 ICC7 ICC8 ICC9 ICC10	8-759-918-33 s IC CX20160 8-759-904-81 s IC 74F08PC 8-759-946-38 s IC SN74ALS574AN 8-759-904-26 s IC SN74ALS08N 8-759-946-64 s IC SN74ALS04BN	ICE11 ICE12 ICE13 ICE14 ICE16	8-759-917-06 s IC SN74HC574N 8-759-917-06 s IC SN74HC574N 8-759-917-06 s IC SN74HC574N 8-759-917-06 s IC SN74HC574N 8-759-918-33 s IC CX20160
ICC11 ICC13 ICC14 ICC15 ICC16	8-759-904-36 s IC SN74ALS27N 8-759-948-19 s IC V74ACT821PS 8-759-948-19 s IC V74ACT821PS 8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN	ICE22 ICE24 ICE26	8-752-337-41 s IC CXK1206M 8-752-337-41 s IC CXK1206M 8-752-337-41 s IC CXK1206M 8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN
ICC17 ICC18 ICC19 ICC20 ICC21	8-759-917-87 s IC 74F382PC 8-759-917-87 s IC 74F382PC 8-759-946-38 s IC SN74ALS574AN 8-759-948-19 s IC V74ACT821PS 8-759-706-00 s IC WS57C291B-DPR15C21V1	ICE29 ICE30 ICE8A	8-759-706-08 s IC WS57C291B-DPR15E28V1 8-759-948-19 s IC V74ACT821PS 8-752-304-30 s IC CX23043 8-759-917-43 s IC SN74HC138N
ICC22 ICC23 ICC24 ICC25 ICC26	8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN 8-759-917-87 s IC 74F382PC	ICF2 ICF3 ICF4 ICF5	8-759-916-66 s IC SN74HCT240N 8-759-916-66 s IC SN74HCT240N 8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN 8-759-916-42 s IC SN74HC133N
ICC27 ICC28 ICC29 ICC31	8-759-906-76 s IC 74F283PC 8-759-906-76 s IC 74F283PC 8-759-946-38 s IC SN74ALS574AN 8-759-948-19 s IC V74ACT821PS	ICF7 ICF8 ICF9	8-759-916-42 s IC SN74HC133N 8-759-916-42 s IC SN74HC133N 8-759-904-38 s IC SN74ALS32N 8-759-147-02 s IC UPD42101C-3 8-759-906-78 s IC 74F399PC
ICD1 ICD2 ICD3 ICD4 ICD5	8-759-904-77 s IC AM26LS32ACN 8-759-901-44 s IC 74F240PC 8-759-900-69 s IC SN74ALS74AN 8-759-900-69 s IC SN74ALS74AN 8-759-900-69 s IC SN74ALS74AN	ICF12 ICF13 ICF14	8-759-906-78 s IC 74F399PC 8-759-706-20 s IC AT27HC642-DPR15F12V1 8-759-946-38 s IC SN74ALS574AN 8-759-946-38 s IC SN74ALS574AN 8-759-706-21 s IC AT27HC642-DPR15F15V1

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(DPR-15 BOARD)
                                                                                                         (DPR-15 BOARD)
 Ref. No.
                                                                                                         Ref. No.
  or Q'ty Part No.
                                    SP Description
                                                                                                         or Q'ty Part No.
                                                                                                                                           SP Description
                                                                                                                       8-759-990-96 s IC CXD8157Q
8-759-946-38 s IC SN74ALS574AN
8-759-900-69 s IC SN74ALS74AN
8-759-900-69 s IC SN74ALS74AN
                8-759-936-60 s IC SN74ALS273N
8-759-706-09 s IC WS57C291B-DPR15F17V1
8-752-337-41 s IC CXK1206M
  ICF16
                                                                                                         ICJ24
  ICF17
                                                                                                         ICJ26
  ICF19
                                                                                                         ICJ27
  ICF22
                8-752-337-41 s IC CXK1206M
                                                                                                         ICJ28
  ICF24
                8-752-337-41 s IC CXK1206M
                                                                                                         ICJ29
                                                                                                                        8-759-937-47 s IC SN74ALS86N
               8-759-946-38 s IC SN74ALS574AN
8-759-946-38 s IC SN74ALS574AN
8-759-917-87 s IC 74F382PC
8-759-917-87 s IC 74F382PC
8-759-803-70 s IC SN74HC08N
 ICF26
                                                                                                         ICJ30
                                                                                                                       8-752-304-30 s IC CX23043
 ICF27
                                                                                                                       8-759-946-38 s IC SN74ALS574AN
8-759-900-69 s IC SN74ALS74AN
 ICF28
                                                                                                         ICK26
 ICF29
                                                                                                         ICK27
 ICF8A
                                                                                                         ICK28
                                                                                                                       8-759-900-69 s IC SN74ALS74AN
               8-759-946-38 s IC SN74ALS574AN
8-759-946-38 s IC SN74ALS574AN
 ICG1
                                                                                                         RB1
                                                                                                                       1-231-525-00 s RESISTOR BLOCK 4.7Kx4
 ICG2
                                                                                                                       1-231-385-00 s RESISTOR BLOCK 4.7Kx8
                                                                                                         RB2
               8-759-705-98 s IC WS57C291B-DPR15G3V1
8-759-706-22 s IC AT27HC642-DPR15G4V1
8-759-946-38 s IC SN74ALS574AN
 ICG3
                                                                                                         RR3
                                                                                                                       1-231-525-00 s RESISTOR BLOCK 4.7Kx4
                                                                                                                       1-231-525-00 s RESISTOR BLOCK 4.7Kx4
 ICG4
                                                                                                         RB4
 ICG5
                                                                                                         RB5
                                                                                                                       1-231-501-00 s RESISTOR BLOCK 470x4
               8-759-147-02 s IC UPD42101C-3
8-759-946-38 s IC SN74ALS574AN
8-759-706-23 o IC AT27HC642-DPR15G8V1
8-759-946-38 s IC SN74ALS574AN
8-759-946-38 s IC SN74ALS574AN
                                                                                                                       1-231-401-00 s RESISTOR BLOCK 470x8
1-231-385-00 s RESISTOR BLOCK 4.7Kx8
 ICG6
                                                                                                         RB6
 ICG7
                                                                                                        RB7
                                                                                                                       1-231-525-00 s RESISTOR BLOCK 4.7Kx4
1-231-502-00 s RESISTOR BLOCK 510x4
 ICG8
                                                                                                        RRR
 TCGQ
                                                                                                        RB9
 ICG10
                                                                                                        RB10
                                                                                                                       1-231-402-11 s RESISTOR BLOCK 510x8
               8-759-906-76 s IC 74F283PC
8-759-706-24 s IC AT27HC642-DPR15G12V1
                                                                                                                       1-570-598-11 s SWITCH, DIP 4-CKT
1-554-027-00 s SWITCH, DIGITAL
 ICG11
                                                                                                         S<sub>1</sub>
ICG12
                                                                                                        S2
                                                                                                                       1-554-027-00 s SWITCH, DIGITAL
1-554-027-00 s SWITCH, DIGITAL
ICG13
               8-759-948-28 s IC SM5828P
8-759-147-02 s IC UPD42101C-3
                                                                                                        S3
ICG15
                                                                                                        S4
ICG16
               8-759-147-02 s IC UPD42101C-3
                                                                                                        S5
                                                                                                                       1-554-027-00 s SWITCH, DIGITAL
ICG17
               8-759-147-02 s IC UPD42101C-3
                                                                                                        S6
                                                                                                                       1-570-623-11 s SWITCH, DIP 8-CKT
              8-752-337-41 s IC CXK1206M
8-752-337-41 s IC CXK1206M
8-752-337-41 s IC CXK1206M
ICG19
ICG22
ICG24
               8-759-917-87 s IC 74F382PC
ICG26
ICG27
               8-759-917-87 s IC 74F382PC
               8-759-906-76 s IC 74F283PC
8-759-906-76 s IC 74F283PC
ICG28
ICG29
               8-752-304-30 s IC CX23043
ICG30
ICH1
               8-759-946-38 s IC SN74ALS574AN
              8-759-946-38 s IC SN74ALS574AN
8-759-705-99 s IC WS57C291B-DPR15H3V1
ICH2
ICH3
              8-759-147-02 s IC UPD42101C-3
8-759-990-97 s IC CXD8156Q
ICH4
ICH7
              8-759-990-97 s IC CXD8156Q
8-759-990-97 s IC CXD8156Q
8-759-990-97 s IC CXD8156Q
8-759-990-96 s IC CXD8157Q
ICH10
ICH13
ICH16
ICH20
ICH24
              8-759-990-96 s IC CXD8157Q
              8-759-904-26 s IC SN74ALS08N
8-759-946-64 s IC SN74ALS04BN
8-759-904-38 s IC SN74ALS32N
ICH27
ICH28
ICH29
ICH30
              8-752-304-30 s IC CX23043
              8-759-946-38 s IC SN74ALS574AN
8-759-946-38 s IC SN74ALS574AN
8-759-918-33 s IC CX20160
8-759-918-33 s IC CX20160
ICJ1
ICJ2
ICJ3
ICJ4
              8-759-719-15 s IC PEEL18CV8P-SAM001V1
ICJ5
              8-759-990-97 s IC CXD8156Q
8-759-990-97 s IC CXD8156Q
8-759-990-97 s IC CXD8156Q
8-759-990-97 s IC CXD8156Q
8-759-990-97 s IC CXD8156Q
ICJ7
ICJ10
ICJ13
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ICJ16 ICJ20

	(DDD 16 D04DD)
DPR-16 BOARD	(DPR-16 BOARD)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
1pc A-6259-461-A o MOUNTED CIRCIUT BOARD, DPR-16 1pc 1-526-654-00 s SOCKET, IC (DP) 16P 1pc 1-526-656-00 s SOCKET, IC (DP) 20P 5pcs 1-526-816-21 o SOCKET, IC (DP) 24P 2pcs 3-166-184-01 o LEVER, PC BOARD	ICB18 8-759-946-38 s IC SN74ALS574AN ICB20 8-752-337-41 s IC CXK1206M ICB23 8-752-337-41 s IC CXK1206M ICB25 8-759-918-33 s IC CX20160 ICB26 8-759-918-33 s IC CX20160
6pcs 7-621-773-87 s SCREW +B 2.6X10 2pcs 7-622-207-05 s N 2.6, TYPE 2 2pcs 7-626-320-11 s PIN, SPRING 3X8 8pcs 7-682-948-01 s SCREW +PSW 3X8	ICB27 8-759-918-33 s IC CX20160 ICB28 8-759-918-33 s IC CX20160 ICB29 8-759-904-26 s IC SN74ALS08N ICB30 8-759-904-38 s IC SN74ALS32N ICB31 8-759-904-36 s IC SN74ALS27N
C1 1-124-589-11 s ELECT 47uF 20% 16V	ICB32 8-759-946-64 s IC SN74ALS04BN
CN1 1-506-748-11 s CONNECTOR, DIN 96P, MALE CN2 1-506-748-11 s CONNECTOR, DIN 96P, MALE CN3 1-506-748-11 s CONNECTOR, DIN 96P, MALE COP1 1-563-859-11 s PLUG, SHORTING COP2 1-563-859-11 s PLUG, SHORTING	ICC8 8-759-989-55 s IC SN74ALS244BN ICC9 8-759-320-87 s IC HM63021P-28 ICC20 8-752-337-41 s IC CXK1206M ICC23 8-752-337-41 s IC CXK1206M ICC29 8-759-904-18 s IC SN74ALS00AN
COP3 1-563-859-11 s PLUG, SHORTING COP4 1-563-859-11 s PLUG, SHORTING COP5 1-563-859-11 s PLUG, SHORTING	ICC30 8-759-906-71 s IC 74F175PC ICC31 8-759-946-36 s IC SN74ALS163BN ICC32 8-759-904-18 s IC SN74ALS00AN
COP6 1-563-859-11 s PLUG, SHORTING COP7 1-563-859-11 s PLUG, SHORTING COR1 1-566-388-11 s CONNECTOR, 8P, MALE	ICD2 8-759-946-38 s IC SN74ALS574AN ICD3 8-759-936-60 s IC SN74ALS273N ICD4 8-759-946-38 s IC SN74ALS574AN
COR2 1-566-388-11 s CONNECTOR, 8P, MALE COR3 1-565-396-11 o PIN, CONNECTOR 10P COR4 1-566-388-11 o CONNECTOR, 8P, MALE	ICD6 8-759-990-96 s IC CXD8157Q ICD11 8-759-946-38 s IC SN74ALS574AN
COR5 1-566-388-11 o CONNECTOR, 8P, MALE F1 1-576-031-11 s FUSE, MICRO F2 1-576-031-11 s FUSE, MICRO	ICD12 8-759-946-38 s IC SN74ALS574AN ICD13 8-759-946-38 s IC SN74ALS574AN ICD14 8-759-946-38 s IC SN74ALS574AN ICD15 8-759-946-38 s IC SN74ALS574AN ICD16 8-759-946-63 s IC SN74ALS541N
ICA3 8-759-946-38 s IC SN74ALS574AN ICA4 8-759-946-38 s IC SN74ALS574AN ICA6 8-759-990-97 s IC CXD8156Q ICA8 8-759-719-16 s IC EPM5016-H24191BV1 ICA9 8-759-320-87 s IC HM63021P-28	ICD17 8-759-946-63 s IC SN74ALS541N ICD18 8-759-946-38 s IC SN74ALS574AN ICD20 8-752-337-41 s IC CXK1206M ICD23 8-752-337-41 s IC CXK1206M ICD26 8-759-990-97 s IC CXD8156Q
ICA11 8-759-918-33 s IC CX20160 ICA13 8-759-990-97 s IC CXD8156Q ICA15 8-759-946-63 s IC SN74ALS541N ICA16 8-759-946-63 s IC SN74ALS541N ICA17 8-759-946-38 s IC SN74ALS574AN	ICD28 8-759-904-38 s IC SN74ALS32N ICD29 8-759-904-26 s IC SN74ALS08N ICD30 8-759-900-69 s IC SN74ALS74AN ICD31 8-759-946-64 s IC SN74ALS04BN ICD33 8-752-304-30 s IC CX23043
ICA18 8-759-946-63 s IC SN74ALS541N ICA20 8-752-337-41 s IC CXK1206M ICA23 8-752-337-41 s IC CXK1206M ICA26 8-759-990-97 s IC CXD8156Q ICA28 8-759-904-26 s IC SN74ALS08N	ICE2 8-759-946-38 s IC SN74ALS574AN ICE3 8-759-989-61 s IC SN74ALS564AN ICE4 8-759-946-38 s IC SN74ALS574AN ICE6 8-759-906-76 s IC 74F283PC ICE7 8-759-906-76 s IC 74F283PC
ICA29 8-759-904-38 s IC SN74ALS32N ICA30 8-759-904-36 s IC SN74ALS27N ICA31 8-759-946-64 s IC SN74ALS04BN ICA32 8-759-936-54 s IC SN74ALS175N ICA33 8-752-304-30 s IC CX23043	ICE8 8-759-946-38 s IC SN74ALS574AN ICE9 8-759-320-87 s IC HM63021P-28 ICE11 8-759-946-38 s IC SN74ALS574AN ICE12 8-759-946-38 s IC SN74ALS574AN ICE13 8-759-946-38 s IC SN74ALS574AN
ICB2 8-759-946-38 s IC SN74ALS574AN ICB3 8-759-946-38 s IC SN74ALS574AN ICB4 8-759-946-38 s IC SN74ALS574AN ICB6 8-759-990-97 s IC CXD8156Q ICB8 8-759-918-33 s IC CX20160	ICE14 8-759-500-72 s IC SN74ALS157AN ICE16 8-759-990-97 s IC CXD8156Q ICE19 8-759-706-31 s IC MB7112-DPR16E19V1 ICE25 8-752-322-06 s IC CXK5814P-35 ICE26 8-752-322-06 s IC CXK5814P-35
ICB11 8-759-918-33 s IC CX20160 ICB13 8-759-990-97 s IC CXD8156Q ICB15 8-759-946-63 s IC SN74ALS541N ICB16 8-759-946-63 s IC SN74ALS541N ICB17 8-759-946-63 s IC SN74ALS541N	ICE27 8-759-948-21 s IC V74ACT827PS ICE28 8-759-948-19 s IC V74ACT821PS ICE29 8-759-948-21 s IC V74ACT827PS ICE30 8-759-948-19 s IC V74ACT821PS

8-759-946-38 s IC SN74ALS574AN

TCH20

TCM7

8-759-990-97 s IC CXD8156Q

		are test too day two own two two	ord online 66	
(DPR-16 BOARD)		DPR-17 BOARD		
Ref. No. or Q'ty	Part No. SP Description	Ref. No.		
ICM9 ICM12 ICM13 ICM14 ICM15	8-759-990-97 s IC CXD8156Q 8-759-917-06 s IC SN74HC574N 8-759-917-06 s IC SN74HC574N 8-759-918-33 s IC CX20160 8-759-918-33 s IC CX20160	1pc 3pcs 2pcs 6pcs 2pcs	A-6259-457-A o MOUNTED CIRCIUT BOARD, DPR-17 1-526-816-21 o SOCKET, IC (DP) 24P 3-166-184-01 o LEVER, PC BOARD 7-621-773-87 s SCREW +B 2.6X10 7-622-207-05 s N 2.6, TYPE 2	
ICM16 ICM17 ICM19 ICM21	8-759-706-10 s IC WS57C291B-DPR16M16V1 8-759-706-11 s IC WS57C291B-DPR16M17V1 8-759-990-96 s IC CXD8157Q 8-759-989-55 s IC SN74ALS244BN	2pcs 8pcs	7-626-320-11 s PIN, SPRING 3X8 7-682-948-01 s SCREW +PSW 3X8 1-124-589-11 s ELECT 47uF 20% 16V	
ICM22 ICM23 ICM24 ICM25 ICM26 ICM27	8-759-936-54 s IC SN74ALS175N 8-759-917-06 s IC SN74HC574N 8-759-948-19 s IC V74ACT821PS 8-752-304-30 s IC CX23043 8-759-948-19 s IC V74ACT821PS 8-752-304-30 s IC CX23043	C97 CN1 CN2 CN3	1-162-294-31 s CERAMIC 0.001uF 10% 50V 1-506-748-11 s CONNECTOR, DIN 96P, MALE 1-506-748-11 s CONNECTOR, DIN 96P, MALE 1-506-748-11 s CONNECTOR, DIN 96P, MALE 1-563-859-11 s PLUG, SHORTING	
ICM29 ICM30 ICM31 ICM32	8-759-948-19 s IC V74ACT821PS 8-759-948-19 s IC V74ACT821PS 8-759-948-19 s IC V74ACT821PS 8-759-705-84 s IC WS57C291B-DPR16M32V1	COP2 COP3 COR1 COR2 COR3	1-563-859-11 s PLUG, SHORTING 1-563-859-11 s PLUG, SHORTING 1-566-388-11 s CONNECTOR, 8P, MALE 1-566-388-11 s CONNECTOR, 8P, MALE 1-566-388-11 s CONNECTOR, 8P, MALE	
RB1 RB2 RB3 RB4 RB5	1-231-385-00 s RESISTOR BLOCK 4.7Kx8 1-231-399-00 s RESISTOR BLOCK 330x8 1-231-399-00 s RESISTOR BLOCK 330x8 1-231-525-00 s RESISTOR BLOCK 4.7Kx4 1-231-525-00 s RESISTOR BLOCK 4.7Kx4	DL1 F1 F2	1-415-167-00 s DELAY LINE 1-576-031-11 s FUSE, MICRO 1-576-031-11 s FUSE, MICRO	
RB6 RB7 RB8 RB9 RB10	1-231-525-00 s RESISTOR BLOCK 4.7Kx4 1-231-525-00 s RESISTOR BLOCK 4.7Kx4 1-231-525-00 s RESISTOR BLOCK 4.7Kx4 1-231-525-00 s RESISTOR BLOCK 4.7Kx4 1-231-525-00 s RESISTOR BLOCK 4.7Kx4	ICA1 ICA2 ICA3 ICA4 ICA5	8-759-948-19 s IC V74ACT821PS 8-759-913-63 s IC SN74ALS374N 8-759-913-63 s IC SN74ALS374N 8-759-921-69 s IC SN74HC688N 8-759-921-69 s IC SN74HC688N	
RB11 RB12 RB13 RB14 RB15	1-231-525-00 s RESISTOR BLOCK 4.7Kx4 1-231-385-00 s RESISTOR BLOCK 4.7Kx8 1-231-525-00 s RESISTOR BLOCK 4.7Kx4 1-231-385-00 s RESISTOR BLOCK 4.7Kx8 1-231-405-00 s RESISTOR BLOCK 1K	ICA6 ICA7 ICA8 ICA9	8-759-917-43 s IC SN74HC138N 8-759-913-63 s IC SN74ALS374N 8-759-913-63 s IC SN74ALS374N 8-759-918-33 s IC CX20160	
RB16 RB17	1-231-385-00 s RESISTOR BLOCK 4.7Kx8 1-231-525-00 s RESISTOR BLOCK 4.7Kx4 1-554-027-00 s SWITCH, DIGITAL	ICB1 ICB2 ICB3 ICB4 ICB5	8-759-916-66 s IC SN74HCT240N 8-759-916-66 s IC SN74HCT240N 8-759-902-44 s IC SN74LS244N 8-759-902-44 s IC SN74LS244N 8-759-902-44 s IC SN74LS244N	
S2 S3 S4 S5	1-554-027-00 s SWITCH, DIGITAL 1-554-027-00 s SWITCH, DIGITAL 1-554-027-00 s SWITCH, DIGITAL 1-554-027-00 s SWITCH, DIGITAL	ICB6 ICB7 ICB8 ICB9	8-759-946-36 s IC SN74ALS163BN 8-759-946-36 s IC SN74ALS163BN 8-759-006-22 s IC SN74LS283N 8-759-912-03 s IC SN74ALS138N	
S6 S7 S8 S9 S10	1-554-027-00 s SWITCH, DIGITAL 1-570-598-11 s SWITCH, DIP 4-CKT 1-554-027-00 s SWITCH, DIGITAL 1-554-027-00 s SWITCH, DIGITAL 1-554-027-00 s SWITCH, DIGITAL	ICB10 ICB11 ICB12 ICB13 ICB14	8-759-904-87 s IC 74F374PC 8-759-948-19 s IC V74ACT821PS 8-759-948-21 s IC V74ACT827PS 8-759-948-19 s IC V74ACT821PS 8-759-948-21 s IC V74ACT827PS	
S11 S12 S13	1-554-027-00 s SWITCH, DIGITAL 1-554-027-00 s SWITCH, DIGITAL 1-554-027-00 s SWITCH, DIGITAL	ICB16 ICB17 ICB18 ICB19	8-759-906-78 s IC 74F379PC 8-759-904-87 s IC 74F374PC 8-759-327-74 s IC CXK58258SP-35 8-759-327-74 s IC CXK58258SP-35	
		ICC1 ICC2 ICC3 ICC4 ICC5	8-759-906-78 s IC 74F399PC 8-759-906-78 s IC 74F399PC 8-759-906-78 s IC 74F399PC 8-759-906-78 s IC 74F399PC 8-759-906-78 s IC 74F399PC	
		ICC6 ICC7	8-759-906-78 s IC 74F399PC 8-759-906-78 s IC 74F399PC	

(DPR-17 BOARD)	(DPR-17 BOARD)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
ICC8 8-759-915-41 s IC 74F02PC ICC10 8-759-938-94 s IC 74F158APC ICC11 8-752-304-30 s IC CX23043 ICC12 8-752-304-30 s IC CX23043 ICC13 8-752-304-30 s IC CX23043	ICF19 8-759-327-74 s IC CXK58258SP-35 ICG1 8-759-906-78 s IC 74F399PC ICG2 8-759-906-78 s IC 74F399PC ICG3 8-759-906-78 s IC 74F399PC ICG4 8-759-906-78 s IC 74F399PC
ICC14 8-752-304-30 s IC CX23043 ICC16 8-759-906-78 s IC 74F399PC ICC17 8-759-912-03 s IC SN74ALS138N ICC18 8-759-327-74 s IC CXK58258SP-35 ICC19 8-759-327-74 s IC CXK58258SP-35	ICG5 8-759-906-78 s IC 74F399PC ICG6 8-759-906-78 s IC 74F399PC ICG7 8-759-906-78 s IC 74F399PC ICG8 8-759-906-76 s IC 74F283PC ICG9 8-759-906-76 s IC 74F283PC
ICD1 8-759-904-77 s IC AM26LS32ACN ICD2 8-759-904-87 s IC 74F374PC ICD3 8-759-904-80 s IC 74F04PC ICD4 8-759-906-78 s IC 74F399PC ICD5 8-759-906-78 s IC 74F399PC	ICG10 8-759-906-76 s IC 74F283PC
ICD2 8-759-904-87 s IC 74F374PC ICD3 8-759-904-87 s IC 74F374PC ICD4 8-759-906-78 s IC 74F399PC ICD5 8-759-906-78 s IC 74F399PC ICD6 8-759-906-78 s IC 74F399PC ICD7 8-759-906-78 s IC 74F399PC ICD7 8-759-906-78 s IC 74F399PC ICD8 8-759-904-79 s IC 74F04PC ICD9 8-759-904-80 s IC 74F04PC ICD10 8-759-915-93 s IC 74F163APC	ICG16 8-759-906-78 s IC 74F399PC ICG17 8-759-912-03 s IC SN74ALS138N ICG18 8-759-327-74 s IC CXK58258SP-35 ICG19 8-759-327-74 s IC CXK58258SP-35
ICD11 8-759-948-19 s IC V74ACT821PS ICD12 8-759-705-86 s IC WS57C291B-DPR17D12V1 ICD13 8-759-948-19 s IC V74ACT821PS ICD14 8-759-705-87 s IC WS57C291B-DPR17D14V1 ICD15 8-759-904-80 s IC 74F04PC	ICH1 8-759-906-78 s IC 74F399PC ICH2 8-759-906-78 s IC 74F399PC ICH3 8-759-906-78 s IC 74F399PC ICH4 8-759-906-78 s IC 74F399PC ICH5 8-759-948-19 s IC V74ACT821PS
ICD16 8-759-906-78 s IC 74F399PC ICD17 8-759-904-87 s IC 74F374PC ICD19 8-759-327-74 s IC CXK58258SP-35 ICE1 8-759-906-78 s IC 74F399PC ICE2 8-759-906-78 s IC 74F399PC	ICH6 8-759-904-81 s IC 74F08PC ICH7 8-759-906-76 s IC 74F283PC ICH8 8-759-906-76 s IC 74F283PC ICH9 8-759-904-87 s IC 74F374PC
ICE3 8-759-906-78 s IC 74F399PC ICE4 8-759-906-78 s IC 74F399PC ICE5 8-759-906-78 s IC 74F399PC	ICH11 8-759-904-87 s IC 74F374PC ICH12 8-759-904-87 s IC 74F374PC ICH13 8-759-906-78 s IC 74F399PC ICH14 8-759-906-78 s IC 74F399PC
ICE6 8-759-906-78 s IC 74F399PC ICE7 8-759-906-78 s IC 74F399PC ICE8 8-759-904-79 s IC 74F00PC ICE9 8-759-904-83 s IC 74F32PC ICE12 8-759-916-96 s IC SN74HC374N	ICH15 8-759-906-78 s IC 74F399PC ICH16 8-759-906-78 s IC 74F399PC ICH17 8-759-904-87 s IC 74F374PC ICH18 8-759-327-74 s IC CXK58258SP-35
ICE15 8-759-906-78 s IC 74F399PC ICE16 8-759-906-78 s IC 74F399PC ICE17 8-759-904-87 s IC 74F374PC ICE18 8-759-912-48 s IC SN74ALS874NT ICE19 8-759-912-48 s IC SN74ALS874NT	ICJ1 8-759-913-63 s IC SN74ALS374N ICJ2 8-759-904-87 s IC 74F374PC ICJ3 8-759-916-01 s IC SN74ALS153N ICJ4 8-759-916-01 s IC SN74ALS153N ICJ5 8-759-913-63 s IC SN74ALS374N
ICF1 8-759-906-78 s IC 74F399PC ICF2 8-759-906-78 s IC 74F399PC ICF3 8-759-906-78 s IC 74F399PC ICF4 8-759-906-78 s IC 74F399PC ICF5 8-759-916-25 s IC SN74HC32N	ICJ6 8-759-912-48 s IC SN74ALS874NT ICJ7 8-759-912-48 s IC SN74ALS874NT ICJ8 8-759-948-19 s IC V74ACT821PS ICJ9 8-759-327-74 s IC CXK58258SP-35 ICJ10 8-759-327-74 s IC CXK58258SP-35
ICF6 8-759-904-79 s IC 74F00PC ICF7 8-759-904-84 s IC 74F74PC ICF8 8-759-946-64 s IC SN74ALS04BN ICF9 8-759-916-14 s IC SN74HC04N ICF10 8-759-906-66 s IC 74F86PC	ICJ12 8-759-327-74 s IC CXK58258SP-35 ICJ13 8-759-327-74 s IC CXK58258SP-35 ICJ14 8-759-327-74 s IC CXK58258SP-35 ICJ15 8-759-906-78 s IC 74F399PC ICJ16 8-759-906-78 s IC 74F399PC
ICF12 8-759-803-70 s IC SN74HC08N ICF13 8-759-901-64 s IC SN74LS164N ICF16 8-759-906-78 s IC 74F399PC ICF17 8-759-904-87 s IC 74F374PC ICF18 8-759-327-74 s IC CXK58258SP-35	ICJ17 8-759-904-87 s IC 74F374PC ICJ18 8-759-912-48 s IC SN74ALS874NT ICJ19 8-759-912-48 s IC SN74ALS874NT ICJ20 8-759-706-26 s IC AT27HC642-DPR17J20V1 R3 1-215-397-00 s METAL 100 1% 1/6W

(DPR-17 BOARD)

Ref. No. or Q'ty	Part No. SP Description	
RB1	1-231-410-00 s RESISTOR BLOCK 10K	κ8
RB2 RB3 RB4	1-231-533-00 s RESISTOR BLOCK 10K2 1-231-410-00 s RESISTOR BLOCK 10K2 1-231-533-00 s RESISTOR BLOCK 10K2	κ8
S1 S2 S3 S4 S5		
S6 S7	1-554-027-00 s SWITCH, DIGITAL 1-570-602-11 s SWITCH, DIP 2-CKT	

DPR-18 BOARD

DLK-10 P	
	Part No. SP Description
1pc	A-6259-456-A O MOUNTED CIRCIUT BOARD, DPR-18
2pcs	1-526-659-00 s SOCKET, IC (DP) 28P
4pcs	1-526-816-21 O SOCKET, IC (DP) 24P
2pcs	3-166-184-01 O LEVER, PC BOARD
6pcs	7-621-773-87 s SCREW +B 2.6X10
2pcs	7-622-207-05 s N 2.6, TYPE 2
2pcs	7-626-320-11 s PIN, SPRING 3X8
8pcs	7-682-948-01 s SCREW +PSW 3X8
C1	1-124-589-11 s ELECT 47uF 20% 16V
CN1	1-506-748-11 s CONNECTOR, DIN 96P, MALE
CN2	1-506-748-11 s CONNECTOR, DIN 96P, MALE
CN3	1-506-748-11 s CONNECTOR, DIN 96P, MALE
COP1	1-563-859-11 s PLUG, SHORTING
COR2	1-566-388-11 s CONNECTOR, 8P, MALE
F1	1-576-031-11 s FUSE, MICRO
F2	1-576-031-11 s FUSE, MICRO
ICA1	8-759-904-87 s IC 74F374PC
ICA2	8-759-904-87 s IC 74F374PC
ICA3	8-759-900-69 s IC SN74ALS74AN
ICA4	8-759-906-76 s IC 74F283PC
ICA5	8-759-906-76 s IC 74F283PC
ICA7	8-759-990-97 s IC CXD8156Q
ICA9	8-759-942-67 s IC L29C520PC
ICA10	8-759-942-67 s IC L29C520PC
ICA11	8-759-904-81 s IC 74F08PC
ICA12	8-759-946-36 s IC SN74ALS163BN
ICA13	8-759-946-36 s IC SN74ALS163BN
ICA14	8-759-946-36 s IC SN74ALS163BN
ICA15	8-759-942-67 s IC L29C520PC
ICA16	8-759-916-54 s IC SN74HC174N
ICA17	8-759-948-19 s IC V74ACT821PS
ICA18	8-759-948-21 s IC V74ACT827PS
ICA20	8-752-304-30 s IC CX23043
ICA21	8-752-304-30 s IC CX23043
ICA23	8-759-990-97 s IC CXD8156Q
ICB1	8-759-904-87 s IC 74F374PC
ICB2	8-759-904-87 s IC 74F374PC
ICB3	8-759-904-18 s IC SN74ALS00AN
ICB4	8-759-906-76 s IC 74F283PC
ICB5	8-759-906-76 s IC 74F283PC
ICB9	8-759-916-54 s IC SN74HC174N
ICB10	8-759-916-54 s IC SN74HC174N
ICB11	8-759-001-87 s IC 74F20PC
ICB12	8-759-914-96 s IC N74F85N
ICB13	8-759-914-96 s IC N74F85N
ICB14	8-759-914-96 s IC N74F85N
ICB15	8-759-942-67 s IC L29C52OPC
ICB16	8-759-916-54 s IC SN74HC174N
ICB17	8-759-948-19 s IC V74ACT821PS
ICB18	8-759-948-21 s IC V74ACT827PS
ICB19	8-759-916-14 s IC SN74HCO4N
ICB20	8-759-918-33 s IC CX20160
ICB21	8-759-917-43 s IC SN74HC138N
ICC1	8-759-904-87 s IC 74F374PC 8-759-904-87 s IC 74F374PC

8-759-500-72 s IC SN74ALS157AN ICE21 Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts

8-759-706-28 s IC ATZ7HC642-DPR18E14V1 8-759-948-21 s IC V74ACT827PS 8-759-916-71 s IC SN74HC244N

8-759-002-00 s IC MC74F153N 8-759-906-66 s IC 74F86PC 8-759-948-19 s IC V74ACT821PS

8-759-916-66 s IC SN74HCT240N 8-759-902-44 s IC SN74LS244N 8-759-913-63 s IC SN74ALS374N 8-759-913-63 s IC SN74ALS374N 8-759-946-64 s IC SN74ALS04BN

8-759-914-96 s IC N74F85N 8-759-916-54 s IC SN74HC174N 8-759-906-66 s IC 74F86PC 8-759-914-96 s IC N74F85N 8-759-914-96 s IC N74F85N

8-759-914-96 s IC N74F85N

8-759-948-19 s IC V74ACT821PS

8-759-913-63 s IC SN74ALS374N

8-759-913-63 s IC SN74ALS374N 8-759-987-11 s IC SN74ALS575ANT 8-759-936-60 s IC SN74ALS273N

ICD20

ICD21

ICD22

ICE1

ICE2

ICE3 ICE4

ICE5

TCF6

ICE7

ICE8 TCF9

ICE10

ICE11

ICE13

ICE14 ICE15

ICE16

ICE17

ICE18

ICE19 ICE20

List".

ICG18

ICG19

ICG20

ICG21

ICG22

ICG24

ICG26

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ICH1

ICH2

ICH3

ICH4

ICH5

ICH6

ICH7

ICH8

ICH11

ICH13

ICH14

ICH15

ICH16

TCH17

ICH18

ICH19

8-752-304-30 s IC CX23043 8-752-304-30 s IC CX23043 8-759-948-19 s IC V74ACT821PS

8-759-913-63 s IC SN74ALS374N 8-759-948-19 s IC V74ACT821PS 8-759-937-47 s IC SN74ALS86N

8-759-913-63 s IC SN74ALS374N

8-759-913-63 s IC SN74ALS374N

8-759-938-44 s IC SN74ALS688N 8-759-707-73 s IC AT27HC642-DPR18H14V1

8-759-914-96 s IC N74F85N

8-759-914-96 s IC N74F85N 8-759-916-54 s IC SN74HC174N 8-759-948-28 s IC SM5828P 8-759-990-97 s IC CXD8156Q

8-759-921-08 s IC SN74HC02N 8-759-904-80 s IC 74F04PC

8-759-913-63 s IC SN74ALS374N

8-759-913-63 s IC SN74ALS374N 8-759-987-11 s IC SN74ALS575ANT

(DPR-18 BOARD)

Ref. No. or Q'ty	Part No. SP Description
ICH20	8-759-936-60 s IC SN74ALS273N
	8-759-916-54 s IC SN74HC174N
	8-759-916-79 s IC SN74HC273N
	8-759-916-96 s IC SN74HC374N
ICH24	8-759-916-54 s IC SN74HC174N
ICH26	8-759-948-28 s IC SM5828P
201120	
RB1	1-231-533-00 s RESISTOR BLOCK 10Kx4 1-231-410-00 s RESISTOR BLOCK 10Kx8
RB2	1-231-410-00 s RESISTOR BLOCK 10Kx8
RB3	1-231-410-00 s RESISTOR BLOCK 10Kx8
••	4 FEA COT OO CUITOU DIGITAL
51	1-554-027-00 s SWITCH, DIGITAL 1-554-027-00 s SWITCH, DIGITAL
S2	1-554-027-00 s SWITCH, DIGITAL
S3	1-554-027-00 s SWITCH, DIGITAL 1-554-027-00 s SWITCH, DIGITAL
S4	1-554-027-00 s SWITCH, DIGITAL
S5	1-554-027-00 s SWITCH, DIGITAL
S6	1-554-027-00 s SWITCH, DIGITAL
S7	1-554-027-00 s SWITCH, DIGITAL
S8	1-570-602-11 s SWITCH, DIP 2-CKT

EX-270 BOARD

Ref. No.		
or Q'ty	Part No. SP	Description
1pc		
1pc		
1pc	A-6279-729-A o	RAIL (L) ASSY
2pcs	3-701-439-21 s	WASHER
2pcs	3-166-847-01 o	BRACKET, PC BOARD LEVER
		•
2pcs	3-166-184-01 o	LEVER. PC BOARD
4ncs	3-166-184-01 o 3-167-578-01 s	NUT. PLATE
2ncs	3-167-579-01 o	BRACKET, PC BOARD LEVER
1nc	3-167-586-01 0	BRACKET, PC BOARD LEVER PLATE, SHIELD
12nce	7-621-773-87 s	SCDEW +R 2 6X10
Tapes	7-021-773-07 3	SUICH .B Z.OXIO
4pcs	7-622-207-05 s	N 2 6 TYPE 2
2pcs	7 624 105 04 c	STOD DING 2 3 TVDF_F
2pcs	7-024-103-04 5	STOP RING 2.3, TYPE-E PIN, SPRING 3X8
2pcs	7-020-320-11 5	PIN, SPRING SAG
	7-682-903-01 s	
16pcs	7-682-948-01 s	SCREW +PSW 3X8
244		COMPATOR OF LOCK MALE
CN1	1-506-/48-11 s	CONNECTOR, DIN 96P, MALE
CN2	1-506-748-11 s	CONNECTOR, DIN 96P, MALE
CN3		CONNECTOR, DIN 96P, MALE
CN4		
CN5	1-563-341-11 s	CONNECTOR, DIN 96P, FEMALE
CN6	1-563-341-11 s	CONNECTOR, DIN 96P, FEMALE
		•

LE-76 BOARD

Ref. No. or Q'ty	Part No. SP	Description
1pc	1-631-489-11 o	PC BOARD, LE-76
D1 D2 D3 D4	8-719-920-05 s 8-719-920-05 s 8-719-920-05 s 8-719-920-05 s	DIODE TLG123A DIODE TLG123A

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MB-305 BOARD
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Ref. No. or Q'ty Part No. SP Description 1-580-355-11 o HOUSING, CONNECTOR 96P 7-622-207-05 s N 2.6, TYPE 2 7-628-254-20 s SCREW +PS 2.6X8 98pcs 98pcs 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE CN1 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE CN2 1-580-299-11 o CONNECTOR, DIN 96P CN3 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE CN₄ 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE CN₅ CN6 1-580-299-11 o CONNECTOR, DIN 96P 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE CN7 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE CN8 1-580-299-11 o CONNECTOR, DIN 96P CN9 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE CN10 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE CN11 CN12 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN13** 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN14** 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN15** 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE CN16 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE CN17 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN18** CN19 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN20** 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE CN21 CN22 **CN23** CN24 **CN25** 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN26** CN27 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE CN28 **CN29** 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN30** 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN31** 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN32** 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN33 CN34** 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN35** 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN36 CN37 CN38** 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN39 CN40** 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN41** CN42 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN43 CN44 CN45** 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN46** 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN47** 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN48 CN49** 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE CN50 1-580-299-11 o CONNECTOR, DIN 96P 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN51** CN52 1-563-337-11 s CONNECTOR, DIN 96P, FEMALE **CN53** 1-580-299-11 o CONNECTOR, DIN 96P CN54 1-564-214-11 o PIN, CONNECTOR 3P **CN55**

(MB-305 BOARD)

Ref. No. or Q'ty	Part No. SP	Description
CN56 CN57		CONNECTOR, 7P, MALE INSERT, POWER
CN58		INSERT, POWER
CN59	1-535-869-11 s	INSERT, POWER
CN60	1-535-869-11 s	INSERT, POWER
CN61	1-535-869-11 s	
CN62	1-535-869-11 s 1-535-869-11 s	INSERT, POWER INSERT, POWER
	1-535-869-11 s	INSERT, POWER
CN65		INSERT, POWER
CN66	1-535-869-11 s	INSERT, POWER
		INSERT, POWER
CN68		INSERT, POWER
CN69		INSERT, POWER
CN70		INSERT, POWER
CN71	1-535-869-11 s	INSERT, POWER
CN72	1-535-869-11 s	INSERT, POWER
CN73	1-535-869-11 s	INSERT, POWER
CN74	1-535-869-11 s	INSERT, POWER
RB1		RESISTOR BLOCK 330x8
RB2		RESISTOR BLOCK 390x8
RB3		RESISTOR BLOCK 330x8
RB4		RESISTOR BLOCK 390x8
RB5	1-231-399-00 s l	RESISTOR BLOCK 330x8
RB6		RESISTOR BLOCK 390x8
RB7		RESISTOR BLOCK 330x8
RB8		RESISTOR BLOCK 390x8 RESISTOR BLOCK 330x4
RB9		RESISTOR BLOCK 330x4 RESISTOR BLOCK 390X4
RB10	1-231-499-00 \$ 1	KESISION DLUCK STONA

MEM-41 B		(MEM-41 E	BOARD)
	Part No. SP Description		Part No. SP Description
1pc 14pcs 2pcs	A-6259-458-A O MOUNTED CIRCIUT BOARD, MEM-41 1-526-816-21 O SOCKET, IC (DP) 24P 3-166-184-01 O LEVER, PC BOARD 7-621-773-87 S SCREW +B 2.6X10 7-622-207-05 S N 2.6, TYPE 2 7-626-320-11 S PIN, SPRING 3X8 7-682-948-01 S SCREW +PSW 3X8	ICC19 ICC20	8-759-990-95 s IC CXD8158Q 8-759-990-95 s IC CXD8158Q
6pcs 2pcs	7-621-773-87 s SCREW +B 2.6X10 7-622-207-05 s N 2.6, TYPE 2	ICD1 ICD2 ICD3	8-759-904-87 s IC 74F374PC 8-759-904-87 s IC 74F374PC 8-759-904-87 s IC 74F374PC
2pcs 8pcs	7-626-320-11 s PIN, SPRING 3X8 7-682-948-01 s SCREW +PSW 3X8	ICD4 ICD5	8-759-938-93 s IC 74F157APC 8-759-906-78 s IC 74F399PC
C1	1-124-589-11 s ELECT 47uF 20% 16V	ICD6 ICD7	8-759-505-73 s IC CY7C199-45PC 8-759-505-73 s IC CY7C199-45PC
	1-124-589-11 s ELECT 47uF 20% 16V 1-506-748-11 s CONNECTOR, DIN 96P, MALE 1-506-748-11 s CONNECTOR, DIN 96P, MALE 1-506-748-11 s CONNECTOR, DIN 96P, MALE		8-759-904-87 s IC 74F374PC 8-759-505-73 s IC CY7C199-45PC 8-759-505-73 s IC CY7C199-45PC
COP1 COP2 COP3	1-563-859-11 s PLUG, SHORTING 1-563-859-11 s PLUG, SHORTING 1-563-859-11 s PLUG, SHORTING 1-566-388-11 s CONNECTOR, 8P, MALE	ICD13 ICD14 ICD15	8-759-904-87 s IC 74F374PC 8-759-505-73 s IC CY7C199-45PC 8-759-505-73 s IC CY7C199-45PC 8-759-904-87 s IC 74F374PC
COR1 COR2	1-566-388-11 s CONNECTOR, 8P, MALE	ICD19	8-759-990-95 s IC CXD8158Q
COR3	1-566-388-11 s CONNECTOR, 8P, MALE 1-566-388-11 s CONNECTOR, 8P, MALE		8-759-990-95 s IC CXD8158Q
DL1	1-415-167-00 s DELAY LINE	ICE1 ICE2	8-759-904-77 s IC AM26LS32ACN 8-759-904-87 s IC 74F374PC
F1 F2	1-415-167-00 s DELAY LINE 1-576-031-11 s FUSE, MICRO 1-576-031-11 s FUSE, MICRO	ICE3 ICE4 ICE5	8-759-904-87 s IC 74F374PC 8-759-917-53 s IC 74F139PC 8-759-904-87 s IC 74F374PC
ICA1 ICA2	8-759-936-60 s IC SN74ALS273N 8-759-904-87 s IC 74F374PC	ICE6	8-759-505-73 s IC CY7C199-45PC
ICA3 ICA4 ICA5	8-759-936-60 s IC SN74ALS273N 8-759-904-87 s IC 74F374PC 8-759-904-87 s IC 74F374PC 8-759-917-53 s IC 74F139PC 8-759-904-87 s IC 74F374PC		8-759-505-73 s IC CY7C199-45PC 8-759-904-87 s IC 74F374PC 8-759-505-73 s IC CY7C199-45PC 8-759-505-73 s IC CY7C199-45PC
ICA6 ICA7	8-759-505-73 s IC CY7C199-45PC 8-759-505-73 s IC CY7C199-45PC		8-759-904-87 s IC 74F374PC
ICA9 ICA10	8-759-904-87 s IC 74F374PC 8-759-505-73 s IC CY7C199-45PC	ICE14 ICE15	8-759-505-73 s IC CY7C199-45PC 8-759-505-73 s IC CY7C199-45PC
ICA11	8-759-505-73 s IC CY7C199-45PC 8-759-505-73 s IC CY7C199-45PC 8-759-904-87 s IC 74F374PC 8-759-505-73 s IC CY7C199-45PC 8-759-505-73 s IC CY7C199-45PC	ICE17 ICE19	8-759-904-87 s IC 74F374PC 8-759-990-95 s IC CXD8158Q
ICA13 ICA14	8-759-904-87 s IC 74F374PC 8-759-505-73 s IC CY7C199-45PC 8-759-505-73 s IC CY7C199-45PC		8-759-990-95 s IC CXD8158Q
ICA17 ICA19	8-759-904-87 s IC 74F374PC 8-759-990-95 s IC CXD8158Q	ICF2	8-759-904-87 s IC 74F374PC 8-759-904-87 s IC 74F374PC
ICA20	8-759-990-95 s IC CXD8158Q	ICF4	8-759-904-87 s IC 74F374PC 8-759-938-93 s IC 74F157APC 8-759-906-78 s IC 74F399PC
ICB1 ICB2	8-759-904-87 s IC 74F374PC 8-759-904-87 s IC 74F374PC		8-759-904-87 s IC 74F374PC
ICB3 ICB4 ICB5	8-759-904-87 s IC 74F374PC 8-759-938-93 s IC 74F157APC 8-759-906-78 s IC 74F399PC	ICG3	8-759-904-87 s IC 74F374PC 8-759-904-79 s IC 74F00PC
	8-759-904-80 s IC 74F04PC		8-759-904-79 s IC 74F00PC 8-759-904-80 s IC 74F04PC
ICC2 ICC3	8-759-904-87 s IC 74F374PC 8-759-904-87 s IC 74F374PC		8-759-904-83 s IC 74F32PC 8-759-913-63 s IC SN74ALS374N
ICC4 ICC5	8-759-917-53 s IC 74F139PC 8-759-904-87 s IC 74F374PC	ICG8	8-759-904-81 s IC 74F08PC 8-759-917-53 s IC 74F139PC
ICC6	8-759-505-73 s IC CY7C199-45PC	ICG10	8-759-904-83 s IC 74F32PC
ICC7 ICC9	8-759-505-73 s IC CY7C199-45PC 8-759-904-87 s IC 74F374PC	ICG12	8-759-904-83 s IC 74F32PC 8-759-906-66 s IC 74F86PC
ICC10 ICC11	8-759-505-73 s IC CY7C199-45PC 8-759-505-73 s IC CY7C199-45PC	ICG14	8-759-904-83 s IC 74F32PC 8-759-904-83 s IC 74F32PC 8-759-913-63 s IC SN74ALS374N
ICC14	8-759-904-87 s IC 74F374PC 8-759-505-73 s IC CY7C199-45PC	ICG16	8-759-913-63 s IC SN74ALS374N
ICC15 ICC17	8-759-505-73 s IC CY7C199-45PC 8-759-904-87 s IC 74F374PC		8-759-904-80 s IC 74F04PC 8-759-706-19 s IC WS57C291B-MEM41G18V1

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(MEM-41 BOARD)
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Ref. No. or Q'ty Part No.
                                     SP Description
                8-759-948-19 s IC V74ACT821PS
ICG19
                8-759-500-76 s IC CXD8040G
ICG20
                8-759-906-78 s IC 74F399PC
TCH1
               8-759-906-78 s IC 74F399PC
8-759-904-87 s IC 74F374PC
8-759-904-83 s IC 74F32PC
ICH2
ICH3
ICH6
                8-759-904-79 s IC 74F00PC
ICH7
                8-759-705-96 s IC WS57C291B-MEM41H8V1
ICH8
               8-759-705-97 s IC WS57C291B-MEM41H9V1
8-759-706-12 s IC WS57C291B-MEM41H10V1
8-759-706-13 s IC WS57C291B-MEM41H11V1
8-759-904-87 s IC 74F374PC
ICH9
ICH10
ICH11
ICH12
               8\text{-}759\text{-}706\text{-}14 s IC WS57C291B-MEM41H14V1 8\text{-}759\text{-}706\text{-}15 s IC WS57C291B-MEM41H15V1 8\text{-}759\text{-}990\text{-}97 s IC CXD8156Q
ICH14
ICH15
ICH17
                8-759-948-19 s IC V74ACT821PS
TCH19
               8-759-918-33 s IC CX20160
8-759-918-33 s IC CX20160
8-759-913-63 s IC SN74ALS374N
8-759-938-93 s IC 74F157APC
8-759-002-00 s IC MC74F153N
ICJ3
ICJ4
 ICJ5
 ICJ6
 ICJ7
                8-759-904-80 s IC 74F04PC
                8-759-705-92 s IC WS57C291B-MEM41J8V1
 ICJ8
                8-759-705-93 s IC WS57C291B-MEM41J9V1
8-759-705-94 s IC WS57C291B-MEM41J10V1
ICJ9
 ICJ10
                8-759-705-95 s IC WS57C291B-MEM41J11V1
 ICJ11
                8-759-904-87 s IC 74F374PC
8-759-706-16 s IC WS57C291B-MEM41J13V1
8-759-706-17 s IC WS57C291B-MEM41J14V1
8-759-706-18 s IC WS57C291B-MEM41J15V1
 ICJ12
 ICJ13
 ICJ14
 ICJ15
                8-759-904-81 s IC 74F08PC
 ICJ16
                8-759-904-81 s IC 74F08PC
8-759-904-81 s IC 74F08PC
8-759-948-19 s IC V74ACT821PS
 ICJ17
 ICJ18
 ICJ19
                8-759-500-76 s IC CXD8040G
 ICJ20
                1-570-602-11 s SWITCH, DIP 2-CKT
 S1
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FRAME
Ref. No.
or Q'ty Part No.
                                                       SP Description
                 1-249-408-11 s CARBON 180 5% 1/4W

1-413-477-12 s REGULATOR, SWITCHING (EWS50-5)

1-413-569-11 s REGULATOR, SWITCHING (LWT-4HA522)

1-413-594-11 s SWITCHING REGULATOR (EWS600-5)
4ncs
1pc
1pc
1pc
                 ↑1-410-394-11 S 5WITCHING REGULATOR (EWS)

↑1-424-136-11 S FILTER, NOISE

1-506-468-11 O CONNECTOR, 3P, MALE

↑1-540-178-11 S INLET, AC (GL-2100C-30)

1-541-329-31 S FAN, DC (WITH ALARM)

↑1-572-345-11 S SWITC, SEESAW (AC POWER)

1-631-489-11 O PC BOARD, LE-76
1pc
1pc
1pc
3pcs
1pc
1pc
                        8-719-920-05 s DIODE TLG123A
4pcs
HARNESS (MB1)
                       1-535-427-00 o TERMINAL, SOLDERLESS
1-580-352-11 o HOUSING, CONNECTOR 20P
1-580-359-21 o TERMINAL, CONNECTOR SOLDERLESS
1-580-360-21 o TERMINAL, CONNECTOR SOLDERLESS
HARNESS (MB2)
                      MB2)
1-535-321-11 o TERMINAL, SOLDERLESS
1-535-427-00 o TERMINAL, SOLDERLESS
1-562-210-11 s CONTACT, FEMALE AWG18-22
1-562-211-11 o HOUSING, CONNECTOR 3P
1-569-200-11 o HOUSING, CONNECTOR 7P
1-580-352-11 o HOUSING, CONNECTOR 20P
1-580-358-21 o TERMINAL, CONNECTOR SOLDERLESS
1-580-360-21 o TERMINAL, CONNECTOR SOLDERLESS
HARNESS (AC SW)
                  1-535-316-11 s TERMINAL, GROUND (M4)

1-535-321-11 o TERMINAL, SOLDERLESS

1-535-446-00 o TERMINAL, FASTEN
                        1-563-156-11 o TERMINAL
                  ▲1-576-036-11 s BREAKER, CIRCUIT 6A 250V
                        3-723-892-01 o COVER, CIRCUIT BREAKER
HARNESS (AC1)
                       1-535-321-11 o TERMINAL, SOLDERLESS
1-535-340-11 o TERMINAL, SOLDERLESS
1-535-341-11 o TERMINAL, SOLDERLESS
1-562-210-11 s CONTACT, FEMALE AWG18-22
1-562-286-11 o HOUSING, CONNECTOR 5P
HARNESS(DC1)
                       1-535-690-11 o TERMINAL, SOLDERLESS
1-580-349-11 o HOUSING, CONNECTOR 20P
                       1-580-359-21 o TERMINAL, CONNECTOR SOLDERLESS
1-580-360-21 o TERMINAL, CONNECTOR SOLDERLESS
HARNESS(DC2)
                       1-535-321-11 o TERMINAL, SOLDERLESS
1-535-341-11 o TERMINAL, SOLDERLESS
1-562-210-11 s CONTACT, FEMALE AWG18-22
                        1-562-833-11 o HOUSING, 7P
1-569-196-11 o HOUSING, CONNECTOR 3P
                       1-569-190-11 O HOUSING, CONNECTOR 3P

1-569-197-11 O HOUSING, CONNECTOR 4P

1-580-349-11 O HOUSING, CONNECTOR 20P

1-580-358-21 O TERMINAL, CONNECTOR SOLDERLESS

1-580-360-21 O TERMINAL, CONNECTOR SOLDERLESS
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PACKING MATERIALS & SUPPLIED ACCESSORIES